To: "Thomas, Richard" [Richard.Thomas@vw.com]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 1/4/2010 8:23:05 PM **Subject:** Fw: 2010 Verify VW Labels

2010 Verify VW Labels.xls

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov
----- Forwarded by Jim Snyder/AA/USEPA/US on 01/04/2010 03:22 PM -----

From: Robert Peavyhouse/AA/USEPA/US
To: Jim Snyder/AA/USEPA/US@EPA

Date: 01/04/2010 02:47 PM Subject: 2010 Verify VW Labels

Robert Peavyhouse Compliance and Innovative Strategies Division U.S. EPA - Office of Transportation and Air Quality phone: (734) 214-4814

phone: (734) 214-4814 fax: (734) 214-4869

email: peavyhouse.robert@epa.gov website: http://www.epa.gov/nvfel/

Year	Index	Calc	Mfr	Dvsn	Carline	EngDspl	EngAsp	Fuel	Trans
2010	046	5	Audi	Audi	A3	2.0	TC	G	M6
2010	047	5	Audi	Audi	A3	2.0	TC	G	SA6
2010	076	D	Volkswagen	Audi	A3	2.0	TC	D	SA6
2010	043	5	Audi	Audi	A3 QUATTRO	2.0	TC	G	SA6
2010	018	D	Audi	Audi	A4	2.0	TC	G	CVT1
2010	020	D	Audi	Audi	A4 AVANT QUATTRO	2.0	TC	G	SA6
2010	021	D	Audi	Audi	A4 QUATTRO	2.0	TC	G	SA6
2010		D	Audi	Audi	A4 QUATTRO	2.0	TC	G	M6
2010		D	Audi	Audi	A5 Cabriolet	2.0	TC	G	CVT1
2010	023	D	Audi	Audi	A5 Cabriolet quattro	2.0	TC	G	SA6
2010	022	D	Audi	Audi	A5 QUATTRO	2.0	TC	G	SA6
2010	025	D	Audi	Audi	A5 QUATTRO	2.0	TC	G	M6
2010	060	5	Audi	Audi	A5 QUATTRO	3.2	NA	Ğ	SA6
2010	059	Ď	Audi	Audi	A6	3.2	NA	Ğ	CVT1
2010	035	5	Audi	Audi	A6 AVANT QUATTRO	3.0	SC	Ğ	SA6
2010	008	D	Audi	Audi	A6 QUATTRO	4.2	NA	Ğ	SA6
2010	034	5	Audi	Audi	A6 QUATTRO	3.0	SC	Ğ	SA6
2010	007	D	Audi	Audi	A8	4.2	NA	G	SA6
2010	006	D	Audi	Audi	A8 L	4.2	NA	G	SA6
2010	048	5	Audi	Audi	Q5	3.2	NA	G	SA6
2010		D	Audi	Audi	Q7	4.2	NA	G	SA6
2010	062	D	Volkswagen		Q7	3.6	NA	G	SA6
2010	063	5	Audi	Audi	Q7	3.0	TC	D	SA6
2010	016	5	Audi	Audi	R8	5.2	NA	G	AM6
2010		5	Audi	Audi	R8	5.2	NA	G	M6
2010	032	D	Audi	Audi	R8	4.2	NA	G	SA6
2010	033	D	Audi	Audi	R8	4.2	NA	G	M6
2010	036	5	Audi	Audi	S4	3.0	SC	Ğ	M6
2010	037	5	Audi	Audi	S4	3.0	SC	Ğ	SA7
2010	009	5	Audi	Audi	S5	4.2	NA	Ğ	SA6
2010	010	5	Audi	Audi	S5	4.2	NA	Ğ	M6
2010	038	5	Audi	Audi	S5 Cabriolet	3.0	SC	Ğ	SA7
2010	042	D	Audi	Audi	S6	5.2	NA	Ğ	SA6
2010		5	Audi	Audi	TT COUPE QUATTRO	2.0	TC	Ğ	SA6
2010		5	Audi	Audi	TT ROADSTER QUATTRO	2.0	TC	Ğ	SA6
		_						_	2, 12
Year	Index	Calc	Mfr	Dvsn	Carline	EngDspl	EngAsp	Fuel	Trans
2010	012	5	Audi	Lamborghini	Gallardo Coupe	5.2	NA	G	AM6
2010	014	5	Audi	Lamborghini	Gallardo Coupe	5.2	NA	G	M6
2010	013	5	Audi	Lamborghini	Gallardo Spyder	5.2	NA	G	AM6
2010	015	5	Audi	Lamborghini	Gallardo Spyder	5.2	NA	G	M6
	Index			Dvsn	Carline	EngDspl			Trans
2010		5	Audi	Volkswagen	CC	2.0	TC	G	SA6
2010		5	Audi	Volkswagen	CC	2.0	TC	G	M6
2010		5	-	Volkswagen	CC	3.6	NA	G	SA6
2010		5	Volkswagen	Volkswagen	CC 4MOTION	3.6	NA	G	SA6
2010	057	5	Audi	Volkswagen	EOS	2.0	TC	G	M6
2010	068	5	Volkswagen	Volkswagen	EOS	2.0	TC	G	SA6

2010	028	5	Volkswagen	Volkswagen	GOLF	2.5	NA	G	A6
2010	031	5	Volkswagen	Volkswagen	GOLF	2.5	NA	G	M5
2010	075	D	Volkswagen	Volkswagen	GOLF	2.0	TC	D	SA6
2010	079	D	Volkswagen	Volkswagen	GOLF	2.0	TC	D	M6
2010	056	5	Audi	Volkswagen	GTI	2.0	TC	G	M6
2010	070	5	Audi	Volkswagen	GTI	2.0	TC	G	SA6
2010	027	5	Volkswagen	Volkswagen	JETTA	2.5	NA	G	A6
2010	030	5	Volkswagen	Volkswagen	JETTA	2.5	NA	G	M5
2010	055	5	Audi	Volkswagen	JETTA	2.0	TC	G	M6
2010	069	5	Audi	Volkswagen	JETTA	2.0	TC	G	SA6
2010	074	D	Volkswagen	Volkswagen	JETTA	2.0	TC	D	SA6
2010	077	D	Volkswagen	Volkswagen	JETTA	2.0	TC	D	M6
2010	026	5	Volkswagen	Volkswagen	JETTA SPORTWAGEN	2.5	NA	G	A6
2010	029	5	Volkswagen	Volkswagen	JETTA SPORTWAGEN	2.5	NA	G	M5
2010	073	D	Volkswagen	Volkswagen	JETTA SPORTWAGEN	2.0	TC	D	SA6
2010	078	D	Volkswagen	Volkswagen	JETTA SPORTWAGEN	2.0	TC	D	M6
2010	065	D	Volkswagen	Volkswagen	NEW BEETLE	2.5	NA	G	SA6
2010	067	D	Volkswagen	Volkswagen	NEW BEETLE	2.5	NA	G	M5
2010	066	D	Volkswagen	Volkswagen	NEW BEETLE CONVERTIBLE	2.5	NA	G	SA6
2010	052	5	Volkswagen	Volkswagen	PASSAT	2.0	TC	G	SA6
2010	054	5	Volkswagen	Volkswagen	PASSAT WAGON	2.0	TC	G	SA6
2010	050	D	Audi	Volkswagen	TIGUAN	2.0	TC	G	SA6
2010	051	D	Audi	Volkswagen	TIGUAN	2.0	TC	G	M6
2010	049	D	Audi	Volkswagen	TIGUAN 4MOTION	2.0	TC	G	SA6
2010	061	D	Volkswagen	Volkswagen	TOUAREG	3.6	NA	G	SA6
2010	064	5	Audi	Volkswagen	Touareg	3.0	TC	D	SA6
Year	Index	Calc	Mfr	Dvsn	Carline	EngDspl	EngAsp	Fuel	Trans
2010	503	D	Chrysler	Volkswagen	Routan	3.8	NA	G	A6
2010	506	D	Chrysler	Volkswagen	Routan	4.0	NA	G	A6

To: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
Cc: "Thomas, Richard" [Richard.Thomas@vw.com]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 1/4/2010 8:33:31 PM **Subject:** Re: Fw: 2010 pollution scores pollution score chart summarychart.pdf

I found the attached chart that listed .

http://www.epa.gov/greenvehicles/Aboutratings.do#aboutairpollution

http://www.epa.gov/greenvehicles/summarychart.pdf

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Vehicle Emission Standards and Air Pollution Score

US EPA Federal Tier 2 Emission Standard Bins and California and Northeast States LEV II Emission Standards									
Standard	Vehicles	Emi	Air Pollution Score						
Statiuaru	Verificies	Max	cimum All	owed G	rams pe	r Mile	Score		
		NOx	NOx NMOG		CO PM		1		
Bin 1	LDV, LLDT, HLDT, MDPV	0.00	0.000	0.0	0.0	0.0	10		
ZEV	LDV, LDET	0.00	0.000	0.0	0.0	0.0			
PZEV	LDV, LDT	0.02	0.010	1.0	0.01	0.004	9.5		
SULEV II	LDV, LDT	0.02	0.010	1.0	0.01	0.004	9		
Bin 2	LDV, LLDT, HLDT, MDPV	0.02	0.010	2.1	0.01	0.004			
Bin 3	LDV, LLDT, HLDT, MDPV	0.03	0.055	2.1	0.01	0.011	8		
ULEV II	LDV, LDT	0.07	0.055	2.1	0.01	0.011	7		
Bin 4	LDV, LLDT, HLDT, MDPV	0.04	0.070	2.1	0.01	0.011			
Bin 5	LDV, LLDT, HLDT, MDPV	0.07	0.090	4.2	0.01	0.018	6		
LEV II	LDV, LDT	0.07	0.090	4.2	0.01	0.018			
Bin 6	LDV, LLDT, HLDT, MDPV	0.10	0.090	4.2	0.01	0.018	5		
LEV II option 1	LDV, LDT	0.10	0.090	4.2	0.01	0.018			
SULEV II	MDV4	0.10	0.100	3.2	0.06	0.008	4		
Bin 7	LDV, LLDT, HLDT, MDPV	0.15	0.090	4.2	0.02	0.018			
SULEV II	MDV5	0.20	0.117	3.7	0.06		3		
Bin 8a	LDV, LLDT, HLDT, MDPV	0.20	0.125	4.2	0.02	0.018			
ULEV II	MDV4	0.20	0.143	6.4	0.06	0.016			
Bin 8b	HLDT, MDPV	0.20	0.156	4.2	0.02	0.018			
LEV II	MDV4	0.20	0.195	6.4	0.12	0.032	2		
Bin 9a	LDV, LLDT	0.30	0.090	4.2	0.06	0.018			
Bin 9b	LDT2	0.30	0.130	4.2	0.06	0.018			
Bin 9c	HLDT, MDPV	0.30	0.180	4.2	0.06	0.018			
ULEV II	MDV5	0.40	0.167	7.3	0.06				
Bin 10a	LDV, LLDT	0.60	0.156	4.2	0.08	0.018	1		
LEV II	MDV5	0.40	0.230	7.3	0.12				
Bin 11	MDPV	0.90	0.280	7.3	0.12	0.032	0		

See Glossary in Summary of Current and Historical Emission Standards for explanation of terms.

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I found the attached chart that listed .

http://www.epa.gov/greenvehicles/Aboutratings.do#aboutairpollution

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Vehicle Emission Standards and Air Pollution Score

Cal	US EPA Federal Tier 2 ifornia and Northeast S						A:
Standard	Vehicles	Em	Air Pollution Score				
Standard	Venicles	Max	cimum All	owed G	rams pe	r Mile	Score
		NOx	NMOG	CO	PM	НСНО	
Bin 1	LDV, LLDT, HLDT, MDPV	0.00	0.000	0.0	0.0	0.0	10
ZEV	LDV, LDET	0.00	0.000	0.0	0.0	0.0	
PZEV	LDV, LDT	0.02	0.010	1.0	0.01	0.004	9.5
SULEV II	LDV, LDT	0.02	0.010	1.0	0.01	0.004	9
Bin 2	LDV, LLDT, HLDT, MDPV	0.02	0.010	2.1	0.01	0.004	1
Bin 3	LDV, LLDT, HLDT, MDPV	0.03	0.055	2.1	0.01	0.011	8
ULEV II	LDV, LDT	0.07	0.055	2.1	0.01	0.011	7
Bin 4	LDV, LLDT, HLDT, MDPV	0.04	0.070	2.1	0.01	0.011	
Bin 5	LDV, LLDT, HLDT, MDPV	0.07	0.090	4.2	0.01	0.018	6
LEV II	LDV, LDT	0.07	0.090	4.2	0.01	0.018	
Bin 6	LDV, LLDT, HLDT, MDPV	0.10	0.090	4.2	0.01	0.018	5
LEV II option 1	LDV, LDT	0.10	0.090	4.2	0.01	0.018	
SULEV II	MDV4	0.10	0.100	3.2	0.06	0.008	4
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Bin 8a	LDV, LLDT, HLDT, MDPV	0.20	0.125	4.2	0.02	0.018	
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Bin 8b	HLDT, MDPV	0.20	0.156	4.2	0.02	0.018	
LEV II	MDV4	0.20	0.195	6.4	0.12	0.032	2
Bin 9a	LDV, LLDT	0.30	0.090	4.2	0.06	0.018	
Bin 9b	LDT2	0.30	0.130	4.2	0.06	0.018	
Bin 9c	HLDT, MDPV	0.30	0.180	4.2	0.06	0.018	
ULEV II	MDV5	0.40	0.167	7.3	0.06		
Bin 10a	LDV, LLDT	0.60	0.156	4.2	0.08	0.018	1
LEV II	MDV5	0.40	0.230	7.3	0.12		
Bin 11	MDPV	0.90	0.280	7.3	0.12	0.032	0

See Glossary in Summary of Current and Historical Emission Standards for explanation of terms.

To: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
Cc: "Thomas, Richard" [Richard.Thomas@vw.com]
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 1/4/2010 8:38:19 PM

Subject: Re: Fw: 2010 Verify VW Labels

2010 Verify VW Labels.xls

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: Jim Snyder/AA/USEPA/US

To: "Thomas, Richard" < Richard. Thomas@vw.com>

Date: 01/04/2010 03:23 PM Subject: Fw: 2010 Verify VW Labels

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Year	Index	Calc	Mfr	Dvsn	Carline	EngDspl	EngAsp	Fuel	Trans
2010	046	5	Audi	Audi	A3	2.0	TC	G	M6
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2010	043	5	Audi	Audi	A3 QUATTRO	2.0	TC	G	SA6
2010	018	D	Audi	Audi	A4	2.0	TC	G	CVT1
2010	020	D	Audi	Audi	A4 AVANT QUATTRO	2.0	TC	G	SA6
2010	021	D	Audi	Audi	A4 QUATTRO	2.0	TC	G	SA6
2010		D	Audi	Audi	A4 QUATTRO	2.0	TC	G	M6
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2010	023	D	Audi	Audi	A5 Cabriolet quattro	2.0	TC	G	SA6
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2010	059	Ď	Audi	Audi	A6	3.2	NA	Ğ	CVT1
2010	035	5	Audi	Audi	A6 AVANT QUATTRO	3.0	SC	Ğ	SA6
2010	008	D	Audi	Audi	A6 QUATTRO	4.2	NA	Ğ	SA6
2010	034	5	Audi	Audi	A6 QUATTRO	3.0	SC	Ğ	SA6
2010	007	D	Audi	Audi	A8	4.2	NA	G	SA6
2010	006	D	Audi	Audi	A8 L	4.2	NA	G	SA6
2010	048	5	Audi	Audi	Q5	3.2	NA	G	SA6
2010		D	Audi	Audi	Q7	4.2	NA	G	SA6
2010	062	D	Volkswagen		Q7	3.6	NA	G	SA6
2010	063	5	Audi	Audi	Q7	3.0	TC	D	SA6
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2010		5	Audi	Audi	TT ROADSTER QUATTRO	2.0	TC	Ğ	SA6
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2010		5	Volkswagen	Volkswagen	CC 4MOTION	3.6	NA	G	SA6
2010	057	5	Audi	Volkswagen	EOS	2.0	TC	G	M6
2010	068	5	Volkswagen	Volkswagen	EOS	2.0	TC	G	SA6

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2010	029	5	Volkswagen	Volkswagen	JETTA SPORTWAGEN	2.5	NA	G	M5
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Sent: Mon 1/4/2010 8:38:20 PM **Subject:** Re: Fw: 2010 Verify VW Labels

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Cc: []

Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Wed 1/6/2010 3:29:50 PM

Subject: Re: Green Vehicle Guide Listing of PZEVs

Thanks for the specifics, I look into it.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From:	Ex. 7	@vw.	com>		
To:	Jim Snyder/AA/USEPA/US@EF	PA			_
Cc:	Ex. 7	@vw.com>	Ex.	7	@vw.com>
Date:	01/05/2010 01:34 PM				i
Subject:	Green Vehicle Guide Listing of	PZEVs			

Hello Jim;

Thanks for the table with the models and label index numbers. I have reviewed it and found that there are a couple of models missing from the Green Vehicle Guide web site, but do appear in the fueleconomy.gov site. They are:

New Beetle 2.5L automatic transmission label index 65 New Beetle Convertible 2.5L automatic transmission label index 66

These two labels were calculated with both BIN 5 and PZEV test group configuration data and therefore PZEV versions should also appear on the Green Vehicle Guide but don't. Perhaps you can investigate why the manual transmission version of the New Beetle appears, while the automatic transmission versions of the New Beetle and New Beetle Convertible do not appear.

The other two models (GTI 2.0L M6 and Jetta 2.0L M6) should now appear on the Green Vehicle Guide after I corrected Audi label index 055 and 056 to change the test group name to the appropriate PZEV test group name for a couple of configurations. Perhaps an update of the green vehicle guide is going to happen soon and these two models will additionally appear as PZEVs.

The only other models in which a PZEV version does not appear is due to the late production and certification of the 2.0L PZEV test group for the Passat, Passat Wagon and CC. The SOP was the first week in November, 2009. I will investigate the status of this new test group and the general label calculation.

Thanks,	
Ex. 7	
	UP OF AMERICA, INC
3800 Hamlin Road	

Auburn Hills, MI 48326
Engineering and Environmental Office (EEO) **Ex. 7**

Ex. 7 @VW.com

To: David Good/AA/USEPA/US@EPA[]

Cc: Linc Wehrly/AA/USEPA/US@EPA;"Kohnen, Christoph (VWGoA)"

[christoph.kohnen@vw.com]; Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]

From: "Kata, Leonard"

Sent: Fri 1/22/2010 10:01:31 PM Subject: Meeting with VW/Audi

Hi Dave:

Next week, Lothar Rech from Audi will be visiting our offices. He has requested that I contact EPA and try to set up a meeting, primarily as a follow-up to the meeting we had last September 24, 2009. Topics would include the following:

Test groups for conventional and hybrid vehicle.
Hybrid test matrix and open SOC measurement for SC03 and COLD CO tests.
Status EPA "Dear Manufacturer" letter for hybrid test procedures.
Open points from September 2009 meeting.
Soak times and tests series for conformity tests.

Steps necessary to get an EPA certificate for an electric vehicle.

With respect to the open points from the September 24, 2009 meeting, I will provide you with a brief report of my understanding of those points.

We would be available to meet next Wednesday, January 27, 2010 or Thursday, January 28, 2010. Please let me know if either of these dates would be acceptable and your preferred time.

Just FYI - I have checked my notes from the September 24, 2009 meeting and EPA participants included Linc Wehrly, Marty Reineman, Tom Anderson, Joel Ball, Chris Nevers, Steve Healy, and you.

Dest	reguras,		
Len			

Rost rogards

Leonard W. Kata Manager Emission Regulations and Certification Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4204

Cell: (248) 797-3886 FAX: (248) 754-4207

E-Mail: leonard.kata@vw.com

To: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]

Cc: leonard.kata@vw.com[]

From: CN=David Good/OU=AA/O=USEPA/C=US

Sent: Mon 1/25/2010 1:36:57 PM Subject: Fw: Meeting with VW/Audi

Jim,

Please work with Len Kata and our folks to set up the meeting.

Thanks

----- Forwarded by David Good/AA/USEPA/US on 01/25/2010 08:34 AM -----

From: "Kata, Leonard" < Leonard. Kata@vw.com>

To: David Good/AA/USEPA/US@EPA

Cc: Linc Wehrly/AA/USEPA/US@EPA, "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>

Date: 01/22/2010 05:01 PM Subject: Meeting with VW/Audi

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Best regards,

Len

Leonard W. Kata Manager

Emission Regulations and Certification Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4204

Cell: (248) 797-3886 FAX: (248) 754-4207

E-Mail: leonard.kata@vw.com

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[];

N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=David Good/OU=AA/O=USEPA/C=US@EPA:Leonard.Kata@vw.com:CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom

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Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 1/25/2010 9:06:48 PM

Subject: Fw: Meeting with VW/Audi on HEV cert and testing

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Just FYI - I have checked my notes from the September 24, 2009 meeting and EPA participants included Linc Wehrly, Marty Reineman, Tom Anderson, Joel Ball, Chris Nevers, Steve Healy, and you.

Best regards,

Len

VW FOIA, EPA

Leonard W. Kata

Manager
Emission Regulations and Certification
Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4204 Cell: (248) 797-3886

1

06/20/2017

2017-FFP 000969

FAX: (248) 754-4207

E-Mail: leonard.kata@vw.com

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[];

N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=David Good/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom

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Anderson/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 1/25/2010 9:06:48 PM

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Best regards,

Len

Leonard W. Kata

Manager Emission Regulations and Certification Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4204

Cell: (248) 797-3886

FAX: (248) 754-4207

E-Mail: leonard.kata@vw.com

From: "Kata, Leonard"

Sent: Tue 1/26/2010 2:35:26 PM

Subject: Accepted: Fw: Meeting with VW/Audi on HEV cert and testing

From: Ex. 7

Sent: Tue 1/26/2010 8:15:32 PM Subject: VW Meeting - January 27, 2010

Microsoft PowerPoint - EPA agenda presentation Jan 2010 part1.pdf

Hello Jim:

I have attached a copy of slides for our meeting tomorrow. The slides through 9 cover the first agenda point, Audi Q5 Hybrid, and slides 10 and 11 are placeholders for the second and third agenda items. We will send additional slides in the morning.

Best regards,



Volkswagen Group of America, Inc.



From: Ex. 7

Sent: Wed 1/27/2010 3:40:05 PM

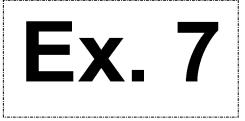
Subject: RE: VW Meeting - January 27, 2010

Microsoft PowerPoint - EPA agenda presentation Jan 2010 part2.pdf

Hello Jim:

As mentioned yesterday, I am now providing the Part 2 of the presentation for our meeting today.

Best regards,



Volkswagen Group of America, Inc.



From: Ex. 7

Sent: Tuesday, January 26, 2010 3:16 PM

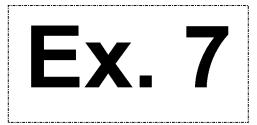
To: 'Jim Snyder/AA/USEPA/US'

Subject: VW Meeting - January 27, 2010

Hello Jim:

I have attached a copy of slides for our meeting tomorrow. The slides through 9 cover the first agenda point, Audi Q5 Hybrid, and slides 10 and 11 are placeholders for the second and third agenda items. We will send additional slides in the morning.

Best regards,



Volkswagen Group of America, Inc.

Ex. 7

Ex. 7

From: "Thomas, Suanne"

Sent: Mon 2/1/2010 7:11:09 PM

Subject: VW: AECD Submission V6 diesel 3.0L Test Group

ARB 01Feb2010 AECD EPA.pdf

CBI BADXT03.03UG RFA AECD .PDF

suanne.thomas@vw.com

ea				

Attached is the information we just discussed regarding the AECD information for our V6 diesel.

We have used a new format for the information with the intent to make it more clear how the strategies work to assist in your review.

Please let me know if you would like an overview of the information via conference call. We are happy to do that, just let me know what time would be convenient for you.

Note: a timeslot in the morning would be preferable for us.

Sincerely,

Suanne Thomas

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4206

Cell: (248) 797-4074 FAX: (248) 754-4207

E-Mail: suanne.thomas@vw.com

From: "Kata, Leonard"

Sent: Tue 2/2/2010 6:42:32 PM

Subject: Meeting with Volkswagen and Audi Representatives

Hello Jim:

I am writing to request another meeting (and providing a bit more notice this time!).

Our colleagues from Audi will be in the U.S. during the first week in March 2010 to participate in a number of meetings. They wish to meet with EPA Staff. Unfortunately, they will be in our area for only one day, Thursday March 5, 2010. Would it be possible to arrange a meeting at EPA Ann Arbor on that day?

The discussion topics include:

Presentation and request for approval of a new tank concept for for SCR systems in various Audi models equipped with the 3.0L TDI diesel engine.

Diesel Exhaust Fluid distribution infrastructure.

We have a window of time available between 9:00am and 2:00pm on March 5, 2010. We would like to request about 2.5 hours, sometime within the window. The group cannot meet beyond 2:00 pm due to flight arrangements.

A quick response would be appreciated so that travel arrangements can be locked in this week. Sorry about all of the conditions.

Best regards,

Len

Leonard W. Kata Manager Emission Regulations and Certification Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4204

Cell: (248) 797-3886 FAX: (248) 754-4207

E-Mail: leonard.kata@vw.com

From: "Kata, Leonard"

Sent: Tue 2/2/2010 8:10:38 PM

Subject: RE: Meeting with Volkswagen and Audi Representatives

Hi Jim:

I have the date wrong. The request is for Thursday, March 4, 2010.

Best regards,

Len

Leonard W. Kata Manager Emission Regulations and Certification Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4204

Cell: (248) 797-3886 FAX: (248) 754-4207

E-Mail: leonard.kata@vw.com

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Tuesday, February 02, 2010 3:03 PM

To: Kata, Leonard

Subject: Re: Meeting with Volkswagen and Audi Representatives

Len, do you mean Thursday the 4th or friday the 5th?

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Kata, Leonard" <Leonard.Kata@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 02/02/2010 01:45 PM

Subject: Meeting with Volkswagen and Audi Representatives

Hello Jim:

I am writing to request another meeting (and providing a bit more notice this time!).

Our colleagues from Audi will be in the U.S. during the first week in March 2010 to participate in a number of meetings. They wish to meet with EPA Staff. Unfortunately, they will be in our area for only one day, Thursday March 5, 2010. Would it be possible to arrange a meeting at EPA Ann Arbor on that day?

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Cell: (248) 797-3886 FAX: (248) 754-4207

E-Mail: leonard.kata@vw.com

To: Ex. 7 @vw.com]
Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 2/2/2010 8:20:54 PM

Subject: RE: Meeting with Volkswagen and Audi Representatives

Okay, I'll set it up.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: **Ex. 7** @vw.com>

To: Jim Snyder/AA/USEPA/US@EPA
Date: 02/02/2010 03:10 PM

Subject: RE: Meeting with Volkswagen and Audi Representatives

Hi Jim:

I have the date wrong. The request is for Thursday, March 4, 2010.

Best regards,

Ex. 7

Ex. 7

Emission Regulations and Certification Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Ex. 7

E-Mail: Ex. 7 @vw.com

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Tuesday, February 02, 2010 3:03 PM

To: **Ex. 7**

Subject: Re: Meeting with Volkswagen and Audi Representatives

Ex. 7 do you mean Thursday the 4th or friday the 5th?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

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Best regards,

Ex. 7

Ex. 7

Emission Regulations and Certification Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road

Auburn Hills, MI 48326

Ex. 7E-Mail: **Ex. 7** @vw.com

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@ww.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[];

N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA[]; N=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 2/2/2010 10:13:32 PM

Subject: Meeting with Volkswagen/ Audi: new tank concept for for SCR systems

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Diesel Exhaust Fluid distribution infrastructure.

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@ww.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[];

N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA[]: N=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 2/2/2010 10:13:32 PM

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Diesel Exhaust Fluid distribution infrastructure.

From: "Kata, Leonard"

Sent: Tue 2/2/2010 10:33:07 PM

Subject: Accepted: Meeting with Volkswagen/ Audi: new tank concept for for SCR systems

Cc: "Kissling, Karlheinz (N/EA-521)" [Karlheinz.Kissling@AUDI.DE]; Kata, Leonard"

[Leonard.Kata@vw.com] From: "Reineke, Dennis"

Sent: Wed 2/3/2010 9:19:28 PM **Subject:** Audi Durability Grouping

Hello Jim,

In response to our recent phone discussion about Durability Grouping the information below describes Audi's request to group vehicles in a durability group that would normally not be eligible to be in a single durability group.

Audi intends to use one catalyst to meet both U.S. and new European (EU5) emission requirements in select models. Currently we are making two requests. The first is for the 2011 MY Audi S5. The second is for the Audi R8 4.2. Listed below are the details of the catalysts Audi would like to group together in the same durability and test groups.

1) The Audi S5 with 4.2 liter V8 engine.

The Audi S5 will use a catalyst with a higher precious metal loading rate. This change will occur as part of the carryover of the 50-State certified Audi S5 models. All vehicles in the durability group/test group will be built with the new catalyst. Engine calibration, catalyst size, catalyst location and catalyst precious metal composition are all unchanged. The only difference compared to previous model years is the increased precious metal loading rate.

Development testing shows a reduction of approximately 10% in emissions and no effect on fuel economy. Based on supplier testing and Audi AG's experience with similar catalyst the deterioration rate for this new catalyst is expect to be equal to or better than the existing catalyst. Audi intends to include this vehicle/catalyst in carryover durability group BADXGPGNN365 / Test Group BADXV04.2365. Durability factors from the 2008-10 MY carryover durability vehicle would be used to support 2011 MY certification. (A new durability vehicle would not be required.)

Durability Group: BADXGPGNN365

Test Group: BADXV04.2365

Audi S5 4.2 MY 08/09/10 MY11 Emission Standard LEV II Type of Coating REX 1662 REX 2073

Precious metal load rate 80 g/ft3 120 g/ft3

PM (Pt: Pd: Rh) 0: 11: 1 Supplier BASF

2) The Audi R8 4.2

The Audi R8 4.2 will use catalysts with a revised Precious Metal (PM) composition for both the precatalyst and main catalyst as well as an increase in the Cells/Inch2. The loading rate is unchanged however the surface area in the precat is increased due to the 33% increase in the number of Cells/inch2. The change will occur as part of the carryover of the 50-State certified Audi R8 4.2 models. All vehicles in

the durability group/test group will be built with the new catalyst. PM loading rate, catalyst size and catalyst locations are all unchanged. The only differences compared to previous model years are the increased cell count and the PM composition..

Development testing shows a reduction of approximately 10% in emissions and no effect on fuel economy. Based on supplier testing and Audi AG's experience with similar catalyst the deterioration rate for this new catalyst is expect to be equal to or better than the existing catalyst. Audi intends to include this vehicle/catalyst in carryover durability group BADXGPGNN375 / Test Group BADXV04.2375. Durability factors from the 2008-10 MY carryover durability vehicle would be used to support 2011 MY certification. (A new durability vehicle would not be required.)

Durability Group: BADXGPGNN375

Test Group: BADXV04.2375

Audi R8 4.2

MY 08/09/10 MY11

Pre Emission Standard LEV II

Catalyst Type of Coating LEX 1365 M30 REX 2073

Precious metal load rate 150 g/ft3 150 g/ft3

PM (Pt: Pd: Rh) 1: 19: 1 0: 20: 1 Cell Density – cells/inch2 400 600 Foil Thickness 0.050 mm. 0.030 mm.

Supplier BASF

Main Emission Standard LEV II

Catalyst Type of Coating LEX 120 REX 2073

Precious metal load rate 100 g/ft3 100 g/ft3

PM (Pt: Pd: Rh) 1: 19: 1 0: 20: 1 Cell Density – cells/inch2 300 300

Cell Wall Thickness 0.050 mm. 0.050 mm.

Supplier BASF

We believe this approach is allowed under 86.1820-01(e)

Please review and contact me with any questions.

Thank you,

Dennis E. Reineke Certification Specialist Engineering and Environmental Office

VOLKSWAGEN Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

USA

Phone: +1-248-754-4215 Fax: +1-248-754-4207

Mail To: Dennis.Reineke@vw.com

To: "Johnson, Stuart" [Stuart.Johnson@vw.com]

Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]

Bcc: []

From: CN=Linc Wehrly/OU=AA/O=USEPA/C=US

Sent: Fri 2/5/2010 3:55:55 PM

Subject: Re: FW:

Stuart,

Sorry I haven't had a chance to return your call. I'm providing some feedback from our engineer who has been in charge of the EPA dioxin test program and the main reviewer of your report. Please let me know if you have any comments or questions. his comments are below:

VW's sample train set up was not ideal and it wasn't clear if they used isotope dilution theory to check for sample loss and in the final concentration determination. Also it is not clear if their results presented in pg/m3 are m3 of exhaust flow or m3 of exhaust sampled. We would like to see pg/m3 of exhaust flow. Also they should present the results in pg/mi.

I would like the above issues addressed before we sign off on the results, but I do think that in the end their results are what we would expect based on our in-house test program and what we have seen coming out of other test programs.

Thanks, Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: "Johnson, Stuart" < Stuart. Johnson@vw.com>

To: Linc Wehrly/AA/USEPA/US@EPA

Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>

Date: 12/21/2009 03:31 PM

Subject: FW:

Hello Linc,

Attached please find the dioxin report we discussed earlier today. Please let me know if you have any questions.

If we don't talk have a good holiday.

Best Regards,

Stuart

VW FOIA, EPA

[attachment "20091221123434762.pdf" deleted by Linc Wehrly/AA/USEPA/US]

To: Linc Wehrly/AA/USEPA/US@EPA[]

From: "Johnson, Stuart" **Sent:** Fri 2/5/2010 8:56:24 PM

Subject: RE: FW:

Hello Linc,

Thanks for the note. I forwarded your questions to Germany so hopefully I can get an answer for you next week.

Best Regards,

Stuart

From: Wehrly.Linc@epamail.epa.gov [mailto:Wehrly.Linc@epamail.epa.gov]

Sent: Friday, February 05, 2010 10:56 AM

To: Johnson, Stuart

Cc: Kohnen, Christoph (VWGoA)

Subject: Re: FW:

Stuart,

Sorry I haven't had a chance to return your call. I'm providing some feedback from our engineer who has been in charge of the EPA dioxin test program and the main reviewer of your report. Please let me know if you have any comments or questions. his comments are below:

VW's sample train set up was not ideal and it wasn't clear if they used isotope dilution theory to check for sample loss and in the final concentration determination. Also it is not clear if their results presented in pg/m3 are m3 of exhaust flow or m3 of exhaust sampled. We would like to see pg/m3 of exhaust flow. Also they should present the results in pg/mi.

I would like the above issues addressed before we sign off on the results, but I do think that in the end their results are what we would expect based on our in-house test program and what we have seen coming out of other test programs.

Thanks, Linc

Linc Wehrly Manager, Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4286 wehrly.linc@epa.gov

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	1	v	11	١.

"Johnson, Stuart" < Stuart. Johnson@vw.com>

To:

Linc Wehrly/AA/USEPA/US@EPA

Cc:

"Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>

Date:

12/21/2009 03:31 PM

Subject:

FW:

Hello Linc,

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If we don't talk have a good holiday.

Best Regards,

Stuart

[attachment "20091221123434762.pdf" deleted by Linc Wehrly/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]

Cc: Bruce Garrison/AA/USEPA/US@EPA;"Johnson, Stuart" [Stuart.Johnson@ww.com];

Johnson, Stuart" [Stuart.Johnson@vw.com]

From: "Popa, Edward"

Sent: Mon 2/8/2010 9:07:07 PM

Subject: In-use vehicles scheduled for Feb. 09 2010

In-Use Parameters Form.xls
Q7 4.2Lcanisterloading.ppt
Fuel Drain Q7-V8FSI.PPT

Hello Lynn,

Please find below and attached the test information and parameters for the EPA In-Use Surveillance Test Program -Eng. Fam. 7ADXT04.2358 and for the vehicle M158RXX-0134X (2007 Audi/Q7):

Lab: NVFEL Ann Arbor,

Michigan

Engine Family: 7ADXT04.2358

Estimated Start Date: Week-ending June 19, 2009

Recall/Testing Representative: Lynn Sohacki
Telephone Number: (734) 214-4851
E-mail address: Sohacki.Lynn@epa.gov
Class Numbers: M158/M159 (low-mileage /

high-mileage)

- General Test Group Information:

Engine Fam.: 7ADXT04.2358

Concept: 4.2

Em. Standard: LEV II - BIN 5 Sales Area: 50 States / Canada

Engine HP: 350 hp Engine Code: BAR

Models in TG: Audi Q7, Touareg

EVAP Fam.: 7ADXR0170358, 7ADXR0230276

EVAP Standard: LEV II - Tier 2

of sold vehicles in TG: 9,727

If you have any questions or need extra information for the procured vehicle please don't hesitate to contact me.

Thank you and best regards,

Edy

Edward-Fabian Popa

Manager In-Use Emission Compliance

Volkswagen Group of America, Inc. Engineering and Environmental Office 3800 Hamlin Road Auburn Hills, MI 48326, U.S.A.

Tel. +1 248 754 4211

Mobile: +1 248 881 4095 Fax: +1 248 754 4207

mailto:edward.popa@audi.com

http://www.vw.com http://www.audiusa.com

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Friday, February 05, 2010 3:44 PM

To: Popa, Edward

Subject: In-use vehicles scheduled for next week

Hi, Edy.

Listed below is the information for the vehicles that we have scheduled for next week.

M158RXX-0134X (2007 Audi/Q7) - Ex. 6 0900 vehicle pick up on 2/9/10 (Tuesday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity 40% tank capacity tire pressure applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



National Vehicle and Fuel Emissions Laboratory 2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

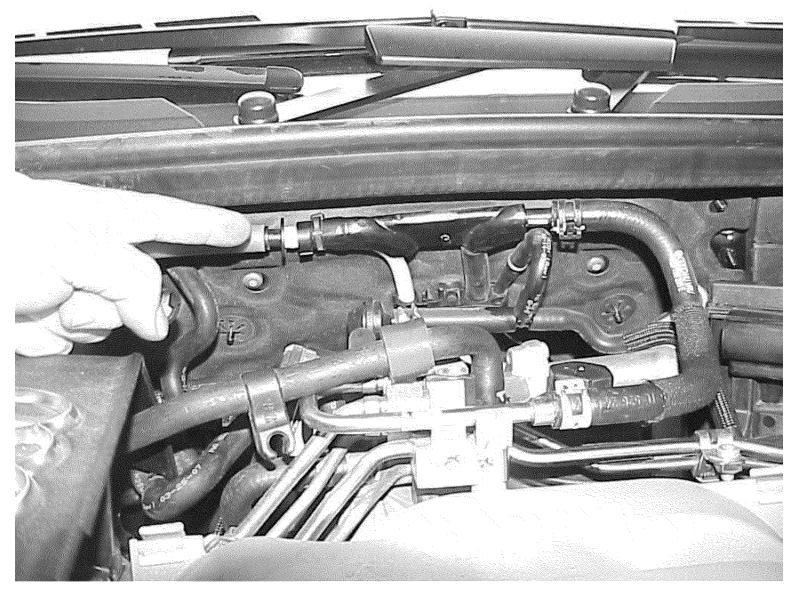
EPA Vehicle Control Number:		3RXX-0092X				
Equivalent Test Weight :		6000.0 Pounds				
Nominal Fuel Tank Capac	city:	26.4 Gallons 40% Fill 10.56688 gallons				
Drive Axle:	All wh	All wheel drive Front, Rear or All wheel drive				
Tire Pressure:	See s	sticker on driver \$753				
Vehicle Target Road-Load	d Coefficients	Vehicle Set Road-Load Coefficients				
A 58	Lb-force	A Lb-force				
B 0.5355	Lb-force*mph	B Lb-force*mph				
c 0.0298 Lb-force*		Lb-force*mph ²				
Does this vehicle qualify for rel	axed in-use standar	eds as set forth in 40 CFR 86.1811-04(p) <u>Y</u> (Y/N)				
Vehicle Starting Instruction	ons, including Tr	raction Control disabling:				
	-					
Miter starting the vehicle press ESP-E	sutton and keep pressing	g for 3 seconds to disable the traction control.				
To avoid unnecessary delays, please Canister Loading Process:	provide specific instruct	tions and pictures (if necessary) for the following items:				
Camster Loading 1 10cess.	see attached manua	ıl				
Fuel Draining Process:						
450 5° 44° 5	see attached manua	<u> </u>				
ABS Disabling Process:						
Fuel Switch Process (Flex F	uel only):					
Comments:						
	For inter	rnal EPA Use Only:				
This information was obtained from:						
* Letter, e-mail, fax or other do		e manufacturer rom the manufacturer to this form)				
* Verbal instruction from the m* Other (specify)						
Manufacturer Representative:		Date:				
EG&G Representative:		Date:				
EPA Representative:		Date:				

VW FOIA, EPA 06/20/2017 2017-FFP_000996

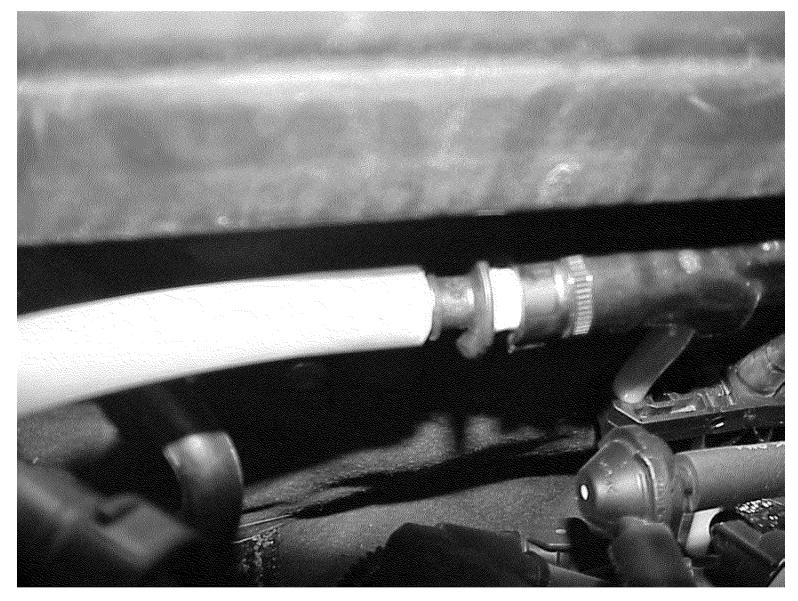
Disconnect to load canister here



Install load hose here



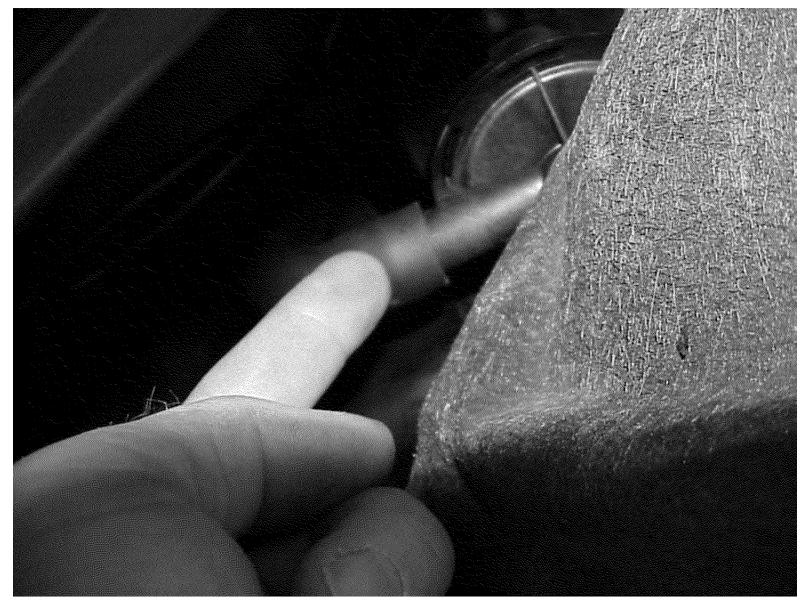
Load hose to station



Overflow open wheel well cover



Disconnect LDP hose



Connect hose for overflow to station for 2g breakthrough



Fuel drain on V8FSI

- ▶ (1) pinch off hose to the high pressure fuel pump (system pressure apx. 6 bar)
- ▶ (2) start and run engine until it stops
- ▶ (3) conect T-piece
- ▶ (4) start and run engine until it stops

Martin Hierse, N/EA-521, 26.05.2009

Fuel drain on V8FSI

fuel high pressure pump

hose to high pressure pump

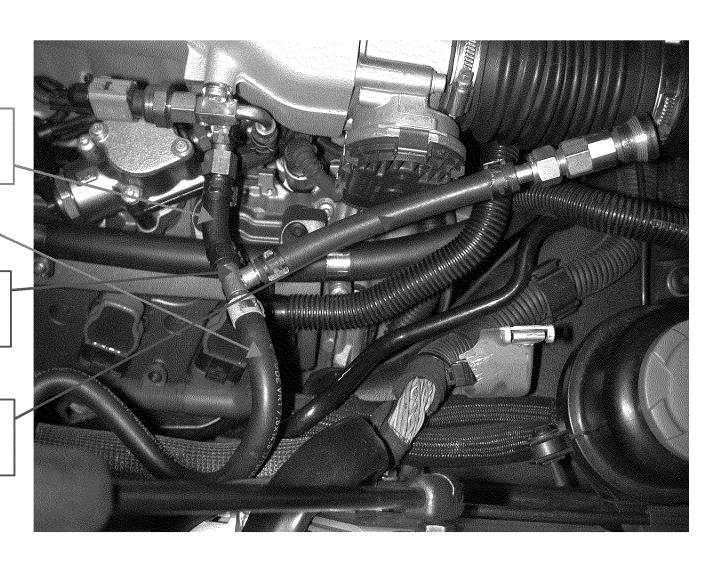


Fuel drain on V8FSI

conection to high pressure pump

T-piece

Fuel drain hose



To: Lynn Sohacki/AA/USEPA/US@EPA[]

Cc: "Johnson, Stuart" [Stuart.Johnson@vw.com]; Kohnen, Christoph (VWGoA)"

[christoph.kohnen@vw.com] **From:** "Popa, Edward"

Sent: Mon 2/15/2010 11:05:15 PM

Subject: In-use vehicles scheduled for next week In-Use Parameters Form N116RXX-0088.xls
In-Use Parameters Form N116RXX-0174.xls

Hello Lynn,

Please find below and attached the test information and parameters for the upcoming EPA In-Use Surveillance Test Program -Eng. Fam. 8ADXV03.1374 and for the vehicles N116RXX-0088 and N116RXX-0174 (2008 Audi/A6):

Lab: NVFEL Ann Arbor,

Michigan

Engine Family: 8ADXV03.1374

Estimated Start Date: Week-ending February 19, 2010

Recall/Testing Representative: Lynn Sohacki
Telephone Number: (734) 214-4851
E-mail address: Sohacki.Lynn@epa.gov
Class Numbers: N116 (low-mileage /

high-mileage)

- General Test Group Information:

Engine Fam.: 8ADXV03.1374

Concept: 3.1

Em. Standard: LEV II - BIN 5 Sales Area: 50 States / Canada

Engine HP: 255 hp Engine Code: BKH

Models in TG: Audi A6 quattro / Audi A6 / Audi A4

/ A4 quattro / Audi A4 Cabriolet

EVAP Fam.: 8ADXR0140282

EVAP Standard: LEV II - Tier 2

of sold vehicles in TG: 15,085

If you have any questions or need extra information for the procured vehicle please don't hesitate to contact me.

Thank you and best regards,

Edy

Edward-Fabian Popa

Manager In-Use Emission Compliance

Volkswagen Group of America, Inc. Engineering and Environmental Office 3800 Hamlin Road Auburn Hills, MI 48326, U.S.A. Tel. +1 248 754 4211 Mobile: +1 248 881 4095 Fax: +1 248 754 4207

mailto:edward.popa@audi.com

http://www.vw.com http://www.audiusa.com

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, February 11, 2010 7:46 AM

To: Popa, Edward

Subject: In-use vehicles scheduled for next week

Hi, Edy.

Listed below is the information for the vehicles that we have scheduled for next week.

N116RXX-0088 (2008 Audi/A6) - VIN# **Ex. 6** //16/10 0900 (Tuesday) Incoming

N116RXX-0174 (2008 Audi/A6) - VIN# **Ex. 6** D2/17/10 (Wednesday) 0900 pick up @ home

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity 40% tank capacity tire pressure applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:		N116RXX-0088				
Equivalent Test Weight :			4250.	0Pounds		
Nominal Fuel Tank Capacity:			18.	5Gallons	40% Fill	7.4 Gallons
Drive Axle:		Front		Front, Re	ar or All whe	eel drive
Tire Pressure:		See sticke	er on drive	r sProSel		
Mfr. Shift Schedule (if requ	iired)		FTP		HWY	US06
Vehicle Target Road-Load	Coefficien	its	Vehicle	Set Road	-Load Coef	fficients
A 40.69	Lb-force		,	Α		Lb-force
B 0.2460	Lb-force*	'mph		В		Lb-force*mph
c 0.0171	Lb-force*	mph ²		С		Lb-force*mph ²
Does this vehicle qualify for rela	xed in-use st	tandards a	s set forth i	n 40 CFR 8	6.1811-04(p)	?(Y/N)
Vehicle Starting Instruction	ıs, includi	ng Tract	ion Contı	ol disabli	ng:	
After starting the vehicle press ESP-But	tton and keep	pressing for	3 seconds to	disable the tra	iction control.	
To avoid unnecessary delays, please pr						ı items:
Canister Loading Process:	see attached		p	<u>, , , , , , , , , , , , , , , , , , , </u>		,
Fuel Draining Process:	See utaonea	manau				
	see attached	manual				
ABS Disabling Process:	n/a					
Fuel Switch Process (Flex Fu	el only):					
Comments:						
Comments.						
	Fo	or internal	EPA Use C	Only:		
This information was obtained from: * Letter, e-mail, fax or other docu	ment delivered	from the man	ufacturer			
* Verbal instruction from the man	additional infori ufacturer's repr		ne manufacture	r to this form)		
* Other (specify)	uracturer 5 repr	osenaur ve				
Manufacturer Representative:					Date:	
EG&G Representative:					Date:	
EPA Representative:					Date:	



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number :		N116RXX-01	74			
Equivalent Test Weight :			4250.0	Pounds		
Nominal Fuel Tank Capaci	ty:		21.1	Gallons	40% Fill	8.45 Gallons
Drive Axle:		All wheel driv	re	Front, Re	ar or All whe	eel drive
Tire Pressure:		See sticker o	n driver	FRSH		
Mfr. Shift Schedule (if requ	ired)	FT	Р		HWY	US06
Vehicle Target Road-Load	Coefficien	nts V	ehicle S	et Road	-Load Coef	fficients
A 38.22	Lb-force		А	ı		Lb-force
B 0.0743	Lb-force*	'mph	В			Lb-force*mph
C 0.0172	Lb-force*	mph ²	С			Lb-force*mph ²
Does this vehicle qualify for relati	xed in-use st	tandards as set	t forth in	40 CFR 8	6.1811-04(p)	?(Y/N)
Vehicle Starting Instruction	ıs, includi	ng Traction	Contro	ol disabli	ng:	
After starting the vehicle press ESP-But	ton and keep	pressing for 3 sec	conds to di	sable the tra	ction control.	
To avoid unnecessary delays, please pr						ı items:
Canister Loading Process:	see attached	manual				
Fuel Draining Process:						
ABS Disabling Process:	see attached	manual				
Ü	n/a					
Fuel Switch Process (Flex Fue	el only):					
Comments:						
	Fo	or internal EPA	\ Use Or	nly:		
This information was obtained from: * Letter, e-mail, fax or other docu				,		
(attach any c	additional infort	nation from the ma		to this form)		
* Verbal instruction from the man* Other (specify)	ufacturer's repr	esentative				
Manufacturer Representative:					Date:	
EG&G Representative:					Date:	
EPA Representative:					Date:	

To:	CN=Martin Reir	neman/OU=AA/O=USEPA/C=US@EPA	٩IJ
Cc:	[]		
Bcc:	Ex. 7	[[Ex. 7 @vw.com]	
From:	CN=Jim Snyder	r/OU=AA/O=USEPA/C=US	
Sent:	Tue 2/16/2010 !	5:13:44 PM	
Subject:	Re: Contact info	0	
Yes, its bas	sically the same VV	V people, at least for emissions purposes.	
	Ex. 7	depending on the topic.	
	Ex. 7	depending on the topic.	
Ex. 7	Ex. 7	depending on the topic.	
i		depending on the topic.	
Ex. 7	@vw.com,	depending on the topic.	

Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: Martin Reineman/AA/USEPA/US
To: Jim Snyder/AA/USEPA/US@EPA

Date: 02/16/2010 12:01 PM

Subject: Contact info

Do you have e-mail addresses for contacts at Audi and Bentley?

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Thomas, Suanne"

Sent: Tue 2/16/2010 6:05:21 PM

Subject: RE: VW: AECD Submission V6 diesel 3.0L Test Group

suanne.thomas@vw.com

Hi Jim: just checking if you have any comments/feedback for us.

Take care, Suanne

From: Thomas, Suanne

Sent: Monday, February 01, 2010 2:11 PM

To: 'snyder.jim@epa.gov'

Subject: VW: AECD Submission V6 diesel 3.0L Test Group

Dear Jim:

Attached is the information we just discussed regarding the AECD information for our V6 diesel.

We have used a new format for the information with the intent to make it more clear how the strategies work to assist in your review.

Please let me know if you would like an overview of the information via conference call. We are happy to do that, just let me know what time would be convenient for you.

Note: a timeslot in the morning would be preferable for us.

Sincerely,

Suanne Thomas

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4206 Cell: (248) 797-4074 FAX: (248) 754-4207

E-Mail: suanne.thomas@vw.com

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Kata, Leonard"

Sent: Wed 2/17/2010 11:24:17 PM

Subject: VW/Audi Meeting

Hello Jim:

I guess that my colleagues from Germany have some additional questions regarding certification of EVs, FCEVs, PHEV etc. They will be in the Detroit area in mid-March. Is it possible to schedule a meeting for the morning of March 18, 2010? This would be in addition to the meeting that we have schedule for March 4, 2010.

Best regards,

Len

Leonard W. Kata Manager Emission Regulations and Certification Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4204

Cell: (248) 797-3886 FAX: (248) 754-4207

E-Mail: leonard.kata@vw.com

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=David

Good/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

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eonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 2/22/2010 8:41:59 PM

Subject: VW/Audi: additional questions on EV,PHEV cert

additional questions from VW regarding certification of EVs, FCEVs, PHEV etc.

I'll try to get some more specifics so we know who is needed to attend.

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=David

Good/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

eonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 2/22/2010 8:41:59 PM

Subject: VW/Audi: additional questions on EV,PHEV cert

additional questions from VW regarding certification of EVs, FCEVs, PHEV etc.

I'll try to get some more specifics so we know who is needed to attend.

Ex. 7 To: @vw.com] Cc:

Bcc:

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Mon 2/22/2010 8:44:31 PM Sent: Subject: Re: VW/Audi Meeting

Ex. 7 I scheduled a meeting so we have a room reserved. Can you give me some specifics? Is it more certification type questions, confirmatory data or testing issues?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: @vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 02/17/2010 06:24 PM Subject: VW/Audi Meeting

Hello Jim:

I guess that my colleagues from Germany have some additional questions regarding certification of EVs, FCEVs, PHEV etc. They will be in the Detroit area in mid-March. Is it possible to schedule a meeting for the morning of March 18, 2010? This would be in addition to the meeting that we have schedule for March 4, 2010.

Best regards,

Ex. 7

Ex. 7

Emission Regulations and Certification Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road

Auburn Hills, MI 48326

E-Mail: Ex. 7

To: Lynn Sohacki/AA/USEPA/US@EPA[]

Cc: "Johnson, Stuart" [Stuart.Johnson@vw.com]; Kohnen, Christoph (VWGoA)"

[christoph.kohnen@vw.com] **From:** "Popa, Edward"

Sent: Wed 2/24/2010 7:01:52 PM

Subject: In-use vehicles scheduled for tomorrow - N116RXX-0051

In-Use Parameters Form N116RXX-0051.xls

Anschlüsse 3.1FSI.pptx

<< Anschlüsse 3.1FSI.pptx>> Hi Lynn,

Attached are the form and the instructions for the third vehicle in this program.

If you have any question, please let me know.

Have a nice day,

Edy

Edward-Fabian Popa

Manager In-Use Emission Compliance

Volkswagen Group of America, Inc. Engineering and Environmental Office 3800 Hamlin Road Auburn Hills, MI 48326, U.S.A.

Tel. +1 248 754 4211 Mobile: +1 248 881 4095 Fax: +1 248 754 4207

mailto:edward.popa@audi.com

http://www.vw.com http://www.audiusa.com

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, February 17, 2010 2:50 PM

To: Popa, Edward

Subject: In-use vehicles scheduled for next week

Hi, Edy.

Listed below is the information for the vehicles that we have scheduled for next week.

N116RXX-0051 (2008 Audi/A6) - VIN# **Ex. 6** 0800 vehicle pick up on 2/25/10 (Thursday)

Please send the following to me for these vehicles before pick-up.

Please use the attached form:

vehicle target road-load coefficients

fuel tank capacity

40% tank capacity

tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



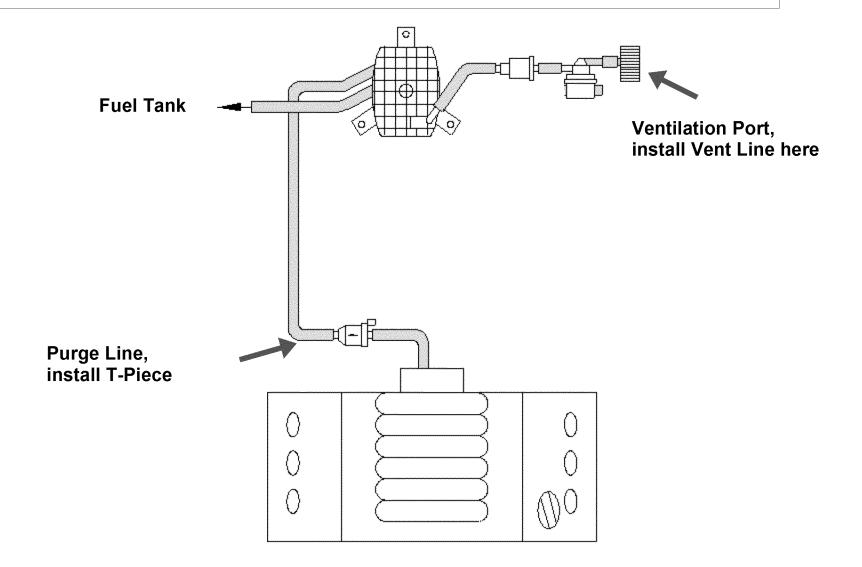
National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

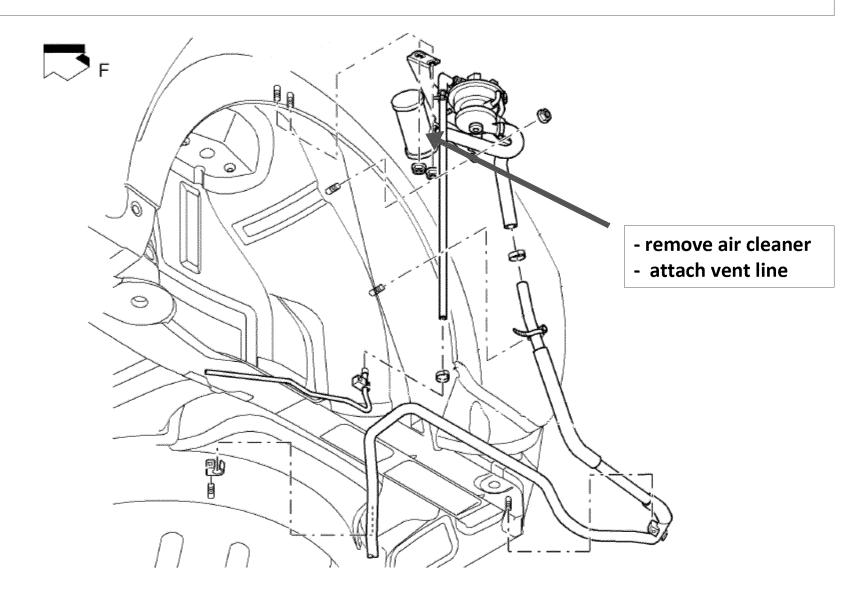
Vehicle Parameters for In-use Testing

EPA Vehicle Control Number :		N116RXX-00	51			
Equivalent Test Weight :			4500.0Po	ounds		
Nominal Fuel Tank Capaci	ty:		21.1 Ga	allons	40% Fill	8.5 Gallons
Drive Axle:		All wheel driv	e Fro	ont, Rea	ar or All whe	el drive
Tire Pressure:		See sticker o	n driver \$ R \$	à l		
Mfr. Shift Schedule (if requ	ired)	FT	Р		HWY [US06
Vehicle Target Road-Load	Coefficien	nts V	ehicle Set	Road-	Load Coef	ficients
A 38.22	Lb-force		Α			Lb-force
B 0.4703	Lb-force*	'mph	В			Lb-force*mph
C 0.0172	Lb-force*	mph ²	С			Lb-force*mph ²
Does this vehicle qualify for relati	xed in-use st	tandards as set	forth in 40	CFR 86	5.1811-04(p)	<u>N(Y/N)</u>
Vehicle Starting Instruction	ıs, includi	ng Traction	Control d	lisabliı	ıg:	
After starting the vehicle press ESP-But	ton and keep	pressing for 3 sec	conds to disab	le the trac	ction control.	
To avoid unnecessary delays, please pr	ovide specific	instructions and	pictures (if nec	cessary) f	or the following	ı items:
Canister Loading Process:	see attached	manual				
Fuel Draining Process:						
ABS Disabling Process:	see attached	manual				
Ü	n/a					
Fuel Switch Process (Flex Fue	el only):					
Comments:						
	Fo	or internal EPA	\ Use Only:			
This information was obtained from: * Letter, e-mail, fax or other docu						
(attach any c	additional infort	nation from the ma		nis form)		
* Verbal instruction from the man* Other (specify)	ufacturer's repr	esentative				
Manufacturer Representative:						
EG&G Representative:						
EPA Representative:						

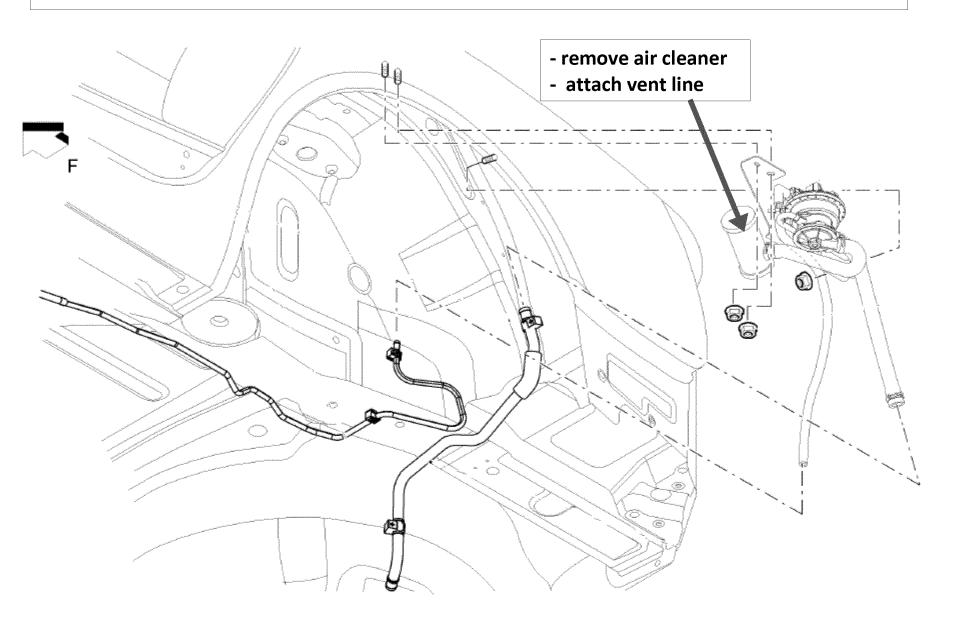
Structure of the Evap. System for Canister Loading/Purging



Audi A4, access to LDP Vent Port – rear left wheelhouse



Audi A6 access to LDP Vent Port – rear left wheelhouse



Engine Compartment



To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Kata, Leonard"

Sent: Tue 3/2/2010 5:03:05 PM

Subject: Accepted: VW/Audi: additional questions on EV,PHEV cert

To: Jim Snyder/AA/USEPA/US@EPA[]

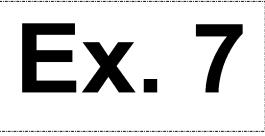
From: Ex. 7

Sent: Tue 3/2/2010 5:04:38 PM Subject: RE: VW/Audi Meeting

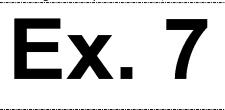
Hi Jim:

Thanks for scheduling the meeting. I am working with my colleagues in Germany to get more details. I hope to have additional information this week.

Best regards,



Volkswagen Group of America, Inc.



From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Monday, February 22, 2010 3:45 PM

To: **Ex. 7**

Subject: Re: VW/Audi Meeting

Hi[Ex. 7] I scheduled a meeting so we have a room reserved. Can you give me some specifics? Is it more certification type questions, confirmatory data or testing issues?

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: Ex. 7
To: Jim Snyder/AA/USEPA/US@EPA

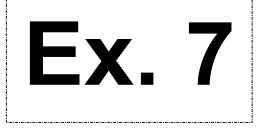
Date: 02/17/2010 06:24 PM

Subject: VW/Audi Meeting

Hello Jim:

I guess that my colleagues from Germany have some additional questions regarding certification of EVs, FCEVs, PHEV etc. They will be in the Detroit area in mid-March. Is it possible to schedule a meeting for the morning of March 18, 2010? This would be in addition to the meeting that we have schedule for March 4, 2010.

Best regards,



Volkswagen Group of America, Inc.



To: Cc:	Jim Snyder/AA/USEPA/US@EPA[] Ex. 7
	Ex. 7
From: Sent: Subject: Agenda E	Ex. 7 Wed 3/10/2010 1:43:52 PM RE: VW/Audi Meeting PA Cert.pdf
Hello Jim:	
Arbor (09:3	invitation for the meeting that we requested on my calendar for March 18, 2010 at EPA Ann $0-11:00$). I have also received the attached draft agenda. If there are any related topics that o discuss, please feel free to add to the agenda.
At this poir	at, I expect 4 or 5 people from the VW Group. I will bring a laptop and projector.
Best regard	ls,
Ex.	7

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Monday, February 22, 2010 3:45 PM

To: **Ex. 7**Subject: Re: VW/Audi Meeting

Hi Ex. 7 I scheduled a meeting so we have a room reserved. Can you give me some specifics? Is it more certification type questions, confirmatory data or testing issues?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov To:
Jim Snyder/AA/USEPA/US@EPA

Date:
02/17/2010 06:24 PM

Subject:

2

To: Robert Peavyhouse/AA/USEPA/US@EPA[] Cc: Jim Snyder/AA/USEPA/US@EPA;"Thomas, Suanne" [Suanne.Thomas@vw.com]; Thomas, Suanne" [Suanne.Thomas@vw.com] From: "Hart, Robert (VWoA)" Sent: Wed 3/10/2010 6:10:46 PM Subject: Request for Federal OBD Approval for MY 2011 Volkswagen Test Group BVWXV02.5U35 CBI BVWXV02.5U35 RFA OBD R00.PDF Hello Robert, I am sending this e-mail as a "heads-up" for a request for Federal OBD approval for model year 2011 Volkswagen test group BVWXV02.5U35 that I just submitted through the Verify System. I have attached a copy of the submitted file for your convenience. Approval is requested by CW 16/10 (week of Monday, Apr. 19, 2010). If you have any questions regarding this request, please contact me as indicated below. Best regards, **Bob Hart** Robert Hart **Engineering and Environmental Office**

Phone: (248) 754-4224

Auburn Hills, MI 48326

3800 Hamlin Road

Volkswagen Group of America, Inc.

Fax: (248) 754-4207

E-mail: robert.hart@vw.com

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OBD Description Submission

As indicated by meeting between EPA / Volkswagen and a letter to EPA Volkswagen is requesting MY11 OBD approval for the following OBD group / test group:

Test group(s) BVWXV02.5U35 (Jetta, Jetta Sportwagen, Golf) Engine Code(s) CBTA MY 2011 Standard Tier2 Bin 5 (Federal only) Transmission Group BVW-AIS (Aisin) carry over from MY10 Application submission New for MY11 Summary table Based on MY 08 ARB approved OBD system (please see submitted file) Emission Control System ARB OBD Approval Approval letter MY 2008 is attached for reference Test Group in MY 2008 BVWXV02.5253		
Engine Code(s) MY 2011 Standard Tier2 Bin 5 (Federal only) Transmission Group BVW-AIS (Aisin) carry over from MY10 Application submission New for MY11 Summary table Based on MY 08 ARB approved OBD system (please see submitted file) Emission Control System SFI/TWC/HO2S(2) ARB OBD Approval Approval letter MY 2008 is attached for reference	OBD Group	BVW-I5
MY Standard Tier2 Bin 5 (Federal only) Transmission Group BVW-AIS (Aisin) carry over from MY10 Application submission New for MY11 Based on MY 08 ARB approved OBD system (please see submitted file) Emission Control System ARB OBD Approval Approval letter MY 2008 is attached for reference	Test group(s)	BVWXV02.5U35 (Jetta, Jetta Sportwagen, Golf)
Standard Tier2 Bin 5 (Federal only) Transmission Group BVW-AIS (Aisin) carry over from MY10 Application submission New for MY11 Summary table Based on MY 08 ARB approved OBD system (please see submitted file) Emission Control System SFI/TWC/HO2S(2) ARB OBD Approval Approval letter MY 2008 is attached for reference	Engine Code(s)	СВТА
Transmission Group BVW-AIS (Aisin) carry over from MY10 Application submission Summary table Based on MY 08 ARB approved OBD system (please see submitted file) Emission Control System ARB OBD Approval Approval letter MY 2008 is attached for reference	MY	2011
Application submission Summary table Based on MY 08 ARB approved OBD system (please see submitted file) Emission Control System SFI/TWC/HO2S(2) ARB OBD Approval Approval letter MY 2008 is attached for reference	Standard	Tier2 Bin 5 (Federal only)
Summary table Based on MY 08 ARB approved OBD system (please see submitted file) Emission Control System SFI/TWC/HO2S(2) ARB OBD Approval Approval letter MY 2008 is attached for reference	Transmission Group	, ,
(please see submitted file) Emission Control System SFI/TWC/HO2S(2) ARB OBD Approval Approval letter MY 2008 is attached for reference	Application submission	New for MY11
ARB OBD Approval Approval letter MY 2008 is attached for reference	Summary table	
	Emission Control System	SFI/TWC/HO2S(2)
Test Group in MY 2008 8VWXV02.5253	ARB OBD Approval	Approval letter MY 2008 is attached for reference
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Test Group in MY 2008	8VWXV02.5253
Federal OBD OBD System for this test group complies with	Federal OBD	OBD System for this test group complies with
CFR §86.1806-01, §86.06-04 and §86.06-05 for light duty vehicle with gasoline engine		
Concept Differences in OBD threshold application based on Tier 2 Bin5	-	OBD threshold application based on Tier 2 Bin5
comparison to MY 2008 ARB system approval NMHC correlated catalyst monitor		NMHC correlated catalyst monitor
EVAP leak detection based on 1.0mm orifice		EVAP leak detection based on 1.0mm orifice
No IUMPR support		No IUMPR support
No Secondary Air System		No Secondary Air System
Deficiency MY08 None	Deficiency MY08	None
Concern MY08 RO2 sensor, purge valve monitoring, fuel system monitoring, VVT monitoring (E05-188 and E06-019)	Concern MY08	RO2 sensor, purge valve monitoring, fuel system monitoring, VVT monitoring (E05-188 and E06-019)
MAP Sensor Monitor (E-06-078)		MAP Sensor Monitor (E-06-078)
Concerns are addressed during certification preview meeting and separate submittals.		_
OBD Approval request Calendar Week 16 / 2010	OBD Approval request	Calendar Week 16 / 2010

Volkswagen, EASZ, 3-09-2010 page 1 of 1



Air Resources Board

Robert F. Sawyer, Ph.D., Chair 9480 Telstar Avenue, Sulte 4 El Monte, California 91731 www.arb.ca.gov



June 1, 2007

Reference No. E-07-109

Mr. Norbert Krause, Manager Volkswagen of America, Inc. Mail Code EEO 3800 Hamlin Road Auburn Hills, MI 48326

Post-It® Fax Note 7671	Date # of ▶ pages ▶
To Bob Hart	From Deter- HD
Co./Dept. VW	CO. ARB
Phone #	Pho(826) 459-4292
Fax (248) 754-4207	Fax f

SUBJECT: Approval of Volkswagen's (VW) On-Board Diagnostics II (OBD II) System Design for 2007 Model Year Test Groups 8VWXV02.5257 and 8VWXV02.5253

Dear Mr. Krause:

The Air Resources Board's (ARB) Engineering Studies Branch has received the OBD II system descriptions submitted by VW for the 2008 model year test groups listed above. Representations made in the application indicate that the systems are compliant with the OBD II regulation. Therefore, ARB approves the 2008 model year systems with no deficiencies. However, the staff does have concerns regarding rear oxygen sensor monitoring, and manifold absolute pressure (MAP) sensor monitoring which were discussed in previous ARB approval letters (Reference No. E-05-188 and E-06-078). Staff understands VW is working to address the rear oxygen sensor monitoring and MAP sensor monitoring concerns. The staff also has concerns regarding front oxygen sensor monitoring as discussed below.

VW's current front oxygen sensor response monitor compares the actual sensor signal to a modeled "threshold" sensor signal. The monitor evaluates the sensor signal over 12 cycles (i.e., lambda modulation and corresponding switches of the sensor from lean to rich and back to lean). VW representatives have explained that the sensor cycle time is a function of both sensor deterioration and catalyst aging and typical cycle time ranges from 1 to 10 seconds which would yield a worst case monitoring time of 120 seconds. While VW representatives believe that this monitoring time is reasonable and will occur in-use, staff is concerned that, as the oxygen sensor malfunctions and progressively deteriorates, the cycle time could be significantly longer and consequently the time required to collect 12 cycles of the sensor signal would affect monitoring frequency and hinder detection of malfunctions in-use. This concern also applies to other test groups that require a specified number of cycles for the oxygen sensor

The energy challenge facing California is real. Every Californian needs to take Immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and out your energy costs, see our website: http://www.arb.ca.gov.

California Environmental Protection Agency

Printed on Recycled Paper

VW FOIA, EPA 06/20/2017 2017-FFP_001033

Mr. Krause June 1, 2007 Page 2 of 2

monitor (e.g., test group 8ADXV05.2385 requires 40 cycles). Staff believes a secondary measure (e.g., the monitor would detect a malfunction if 12 cycles have not been achieved in 120 seconds of monitoring time) is necessary to account for long cycle times and ensure detection of sensor malfunctions that result in longer cycle times. In order to avoid a deficiency determination on future model year vehicles, VW is required to investigate improvements to this monitoring strategy and propose an implementation schedule for staff approval.

Should you have questions or comments regarding this letter, please have your staff contact Mr. Peter Ho at (626) 459-4392.

Sincerely,

Steve Albu, Assistant Chief Mobile Source Control Division

cc: Mr. Peter Ho
Engineering Evaluation Section

Michael J. Rogert for SGA

VW FOIA, EPA 06/20/2017 2017-FFP_001034

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition	Monitoring Time Length	MIL Illum.
Catalyst System	P0420	measure of OSC compared to OSC of borderline catalyst	measured OSC / OSC of borderline catalyst measured OSC (HC and NOx-	4 00 []				2 DCY
			correlated)	< 1.00 [-]			25.0 [s] once / DCY	2 001
			,		time after dew point	> 5.0 [s]		
					delta exhaust mass flow	< 25.00 [kg/h]		
					exhaust gas mass flow, lower range	30.00120.00 [kg/h]		
					exhaust gas mass flow, upper range	150.00 [kg/h]		
					modeled exhaust gas temp. dynamic	< 50 [K]		
					modeled exhaust gas temp. in catalyst system, lower range	560860 [°C]		
					modeled exhaust gas temp. in	1000 [°C]		
					catalyst system, upper range	1000 [0]		
					minimum modeled exhaust gas	> 400 [°C]		
					temp. in catalyst system			
					for time	> 120.0 [s]		
					filtered minimum modeled exhaust	> 450 [°C]		
					gas temp. in catalyst system			
					engine load	14.3065.30 [%]		
					evap purge loading	not high		
					engine speed	12003320 [rpm]		
					range between lambda set value	< 0.05 [-]		
					and lambda value			
					out of lambda range	< 1 [s]		
					lambda control	closed loop		
					lambda control	not at min or max limit		
					number of checks	3.00 [-]		
					O2S front	ready		
					O2S rear	ready		
					SAS	not active		
					no misfire			
					O2S front response monitoring in	ready		
					current driving cycle			

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition	Monitoring Time Length	MIL IIIum.
Misfire	P0300	crankshaft speed fluctuation (single or multiple)	emission threshold misfire rate (MR)			active after engine start	idle - 150 [rpm] + 1 camshaft [rev]	1000 [rev] continuous	2 DCY
	P0301		catalyst damage misfire rate (MR)	> 2.524	[%]	engine speed range	5006250 [rpm]	200 [rev] continuous	immediately
	P0302 P0304					engine torque IAT	>= 0 [Nm] > -48 [°C]		
	P0305 P0303					ECT @ start fuel cut off	> -48 [°C] not active		
						rough road	not detected		
EVAP Purge Valve	P0444	open circuit	signal voltage	4.705.40	[V]	evap purge valve	commanded off	0.5 [s] continuous	2 DCY
						engine speed	> 80 [rpm]		
	P0458	short to ground	signal voltage	0.03.26	[V]	evap purge valve	commanded off	0.5 [s] continuous	2 DCY
						engine speed	> 80 [rpm]		
	P0459	short to battery plus	signal current	> 2.20	[A]	evap purge valve	commanded on	0.5 [s] continuous	2 DCY
						engine speed	> 80 [rpm]		

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition		Monitoring Time Length	MIL Illum.
EVAP Purge Valve	P0441	functional check stuck open	actual evap pump current difference between reference measurement to idle	> 1.70	[-]	ECT	> 60	[°C]	4.5 [s] once / DCY	2 DCY
			divided by			ECT @ start	< 60	[°C]		
			pump current difference from the			ambient air temperature	< 35; > 4	[.C]		
			last leak detection phase during			altitude	<= 2700	[m]		
			engine off			time since engine start	>= 600.0	[[1]]		
			engine on			integrated evap purge flow since last	> 2	[6]		
						purge stop	/ 2	[9]		
						integrated evap purge flow since last	> 0	[a]		
						monitoring run	, 0	[8]		
						intake manifold vacuum	> 100.00	[hDo]		
						vehicle speed	< 120; >= 0			
						delta vehicle speed		[km/h]		
						fuel volume flow	<= 5.00	[KIII/II]		
						at least one leak detection monitor				
							preceding			
						during engine off				
						engine	not idle	, ,		
						engine speed	> 20	[rpm]		
						no fuel cut off				
						no gear shift				
						no engine stop				
						O2S front	ready			
						evap purge valve	commanded off			
	P0441	functional check stuck close	drop of evap pump current	< 1	[mA]	ECT	> 60	[°C]	33.5 [s]	2 DCY
									once / DCY	
			within time	12.0	[s]	ECT @ start	< 60	[°C]		
						ambient air temperature	< 35; > 4	[°C]		
						altitude	<= 2700	[m]		
						time since engine start	>= 600.0	[s]		
						integrated evap purge flow since last	> 2	[g]		
						purge stop				
						integrated evap purge flow since last	> 0	[g]		
						monitoring run				
						intake manifold vacuum	> 100.00	[hPa]		
						vehicle speed	< 120; >= 0	[km/h]		
						delta vehicle speed		[km/h]		
						fuel volume flow	<= 5.00	[ml/s]		
						at least one leak detection monitor	preceding			
						during engine off				
						increase of evap pump current from	>= 0.3	[mA]		1
						idle state		· •		1
						within time	< 17	[s]		1
						engine	not idle			
						engine speed	> 20	[rpm]		
						no fuel cut off				1
						no gear shift				1
						no engine stop				1
						O2S front	ready			1
						evap purge valve	commanded on			1
				1		Total baildo saiso	John Handed On	I		

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition	Monitoring Time Length	MIL IIIum.			
EVAP System Small Leak	P0442	pressure check	modeled pressure from pump current	< 9.00 [hPa]	engine temperature @ engine start	>= 4 [°C]	400.0 [s] once / DCY	2 DCY			
					difference between ECT and IAT @ engine start	<= 15 [K]					
					ambient air temperature	< 35; > 4 [°C]					
					altitude	<= 2700 [m]					
					time since engine start in preceding						
					dcy						
					change in battery voltage during monitoring	< 1.00 [V]					
					engine off time	>= 5.0 [s]					
					vehicle speed	0 [km/h]					
					evap purge adaptation	< 5.00 [-]					
					no sudden change in evap pump	< 2; > -1 [mA]					
					current (filling event)	_, , , , , , ,					
					deviation of filtered evap pump	<= 1 [mA]					
					current durring reference	- 1 Bird					
					measurement within range						
					change in relative evap pump	n.a.					
					current during monitoring						
					within time	n.a.					
					(during ECM keep alive-time after	< 900.0 [s]					
					ignition off, max. time)						
					airbag	not activated					
					(after MIL illumination because of	1 dcys					
					any EVAP leakage the monitor is	'					
					only activated every)						

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition		Monitoring Time Length	MIL Illum.
EVAP Leak Detection Pump	P043E	out of range high during engine off	evap pump current during reference	> 40 [mA]	engine temperature @ engine start	>= 4	[°C]	10.0 [s] once / DCY	2 DCY
			measurement		difference between ECT and IAT @	<= 15	[K]	office / DC f	
					engine start				
					ambient air temperature	< 35; > 4	[°C]		
					altitude	<= 2700			
					time since engine start in preceding	>= 600.0			
					change in battery voltage during monitoring	< 1.00	[V]		
					engine off time	>= 5.0	[s]		
					vehicle speed	0	[km/h]		
					evap purge adaptation	< 5.00			
					deviation of filtered evap pump		[mA]		
					current durring reference		[110.4]		
					measurement within range				
					change in relative evap pump	na			
						n.a.			
					current during monitoring				
					within time	n.a.	. ,		
					(during ECM keep alive-time after	< 900.0	[s]		
					ignition off, max. time)				
					airbag	not activated			
					(after MIL illumination because of	1	dcys		
					any EVAP leakage the monitor is				
					only activated every)				
	P043F	out of range low during engine off	evap pump current during reference measurement	< 15 [mA]	engine temperature @ engine start	>= 4	[°C]	10.0 [s] once / DCY	2 DCY
					difference between ECT and IAT @ engine start	<= 15	[K]		
					ambient air temperature	< 35; > 4	l _o CJ		
					altitude	<= 2700			
					time since engine start in preceding	>= 600.0			
					dcy				
					change in battery voltage during monitoring	< 1.00			
	1				engine off time	>= 5.0	[s]		1
					vehicle speed	0	[km/h]		
	1				evap purge adaptation	< 5.00			1
					deviation of filtered evap pump		[mA]		
	1				current durring reference		ļ .		1
	1				measurement within range				1
	1				change in relative evap pump	n.a.			1
	1				current during monitoring	100.			1
	1				within time	n.a.			1
					(during ECM keep alive-time after	< 900.0	[s]		
	1				ignition off, max. time)	, 550.0	[2]		1
	1				airbag	not activated			1
					(after MIL illumination because of				
	1					1	dcys		1
					any EVAP leakage the monitor is				1
					only activated every)		<u> </u>		

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition	Monitoring Time Length	MIL Illum.
EVAP Leak Detection Pump	P2407	signal check during engine off	fluctuation of evap pump current during reference measurement	> 1 [mA]	engine temperature @ engine start	>= 4 [°C]	800.0 [s] once / DCY	2 DCY
			or		difference between ECT and IAT @ engine start	<= 15 [K]		
			drop of evap pump current during pump phase	> 6 [mA]	ambient air temperature	< 35; > 4 [°C]		
			for time	>= 3.0 [s]	altitude	<= 2700 [m]		
					time since engine start in preceding dcy			
					change in battery voltage during monitoring	< 1.00 [V]		
					engine off time	>= 5.0 [s]		
					vehicle speed	0 [km/l	1]	
					evap purge adaptation	< 5.00 [-]	1	
					deviation of filtered evap pump	<= 1 [mA]		
					current durring reference	'		
					measurement within range			
					change in relative evap pump	n.a.		
					current during monitoring			
					within time	n.a.		
					(during ECM keep alive-time after	< 900.0 [s]		
					ignition off, max. time)			
					airbag	not activated		
					(after MIL illumination because of	1 dcys		
					any EVAP leakage the monitor is			
					only activated every)			

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition	Monit Time	oring Length	MIL Illum.
	P2450	rationality check during engine off	evap pump current difference between reference measurement to	<= 3	[mA]	engine temperature @ engine start	>= 4 [s]	2 DCY
			idle			difference between ECT and IAT @ engine start				
						ambient air temperature	< 35; > 4 [°C1	1	
						altitude	<= 2700 [ml l	1	
						time since engine start in preceding dcy	>= 600.0			
						change in battery voltage during monitoring	< 1.00	/]		
						engine off time	>= 5.0 [9	:1		
						vehicle speed	0.0	km/h]		
						evap purge adaptation	< 5.00			
						no sudden change in evap pump	< 2; > -1 [1	η m Δ1		
						current (filling event)				
						deviation of filtered evap pump current durring reference measurement within range	<= 1 [1	mA]		
						change in relative evap pump current during monitoring	n.a.			
						within time				
						(during ECM keep alive-time after	n.a. < 900.0 [s	.,		
						ignition off, max. time)	\ 900.0 [s	2)		
						airbag	not activated		1	
						(after MIL illumination because of	1 a	cys		
						any EVAP leakage the monitor is				
					38039130130130144	only activated every)				2012011201201201
	T= - · · · -							I		
EVAP Leak Detection Pump	P0448	short to battery plus	signal current	> 2.24.0		evap pump solenoid valve	commanded on	0.5 [s] contin	uous	2 DCY
	P0448	short to ground	signal voltage	< 2.743.26		evap pump solenoid valve	commanded off	0.5 [s] contin	uous	2 DCY
	P0447	open circuit	signal voltage	> 4.75.4	[V]	evap pump solenoid valve	commanded off	0.5 [s] contin	· I	2 DCY
EVAP Leak Detection Pump	P2402	short to battery plus	signal voltage at evap pump current	> 4.00	[V]	evap pump electric drive	commanded on	0.5 [s		2 DCY
			measuring resistor or					contin	uous	
			pump stuck signal voltage at evap pump current measuring resistor	> 1.80	[V]					
	P2401	short to ground	signal voltage	< 2.743.26	[V]	evap pump electric drive	commanded off	0.5 [s contin	uous	2 DCY
	P2400	open circuit	signal voltage	> 4.75.4	[V]	evap pump electric drive	commanded off	0.5 [s		2 DCY

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition	Monitoring Time Length	MIL IIIum.
EVAP Leak Detection Pump	P240C	short to battery plus	signal current	> 2.24.0	_	evap pump heater	commanded on	0.5 [s] continuous	2 DCY
	P240B	short to ground	signal voltage	< 2.743.26	[V]	evap pump heater	commanded off	0.5 [s] continuous	2 DCY
	P240A	open circuit	signal voltage	> 4.75.4	[V]	evap pump heater	commanded off	0.5 [s] continuous	2 DCY
Fuel System	P2096	out of range	I-portion of 2nd lambda control loop	<-0.040[[-	_1	modeled exhaust gas temp.	4001000 [°C]	30.0 [s]	2 DCY
uo. Cyclo	2555	Jan an anga						continuous	
						exhaust gas mass flow	18.00180.00 [kg/h]		
						lambda control	closed loop		
						lambda control	not at min or max limit		
						2nd lambda control	closed loop		
						O2S front	ready		
						O2S rear	ready		
						O2S heater front	active		
						O2S heater rear	active		
						fuel cut off	not active		
						catalyst heating	not active		
						SAI	not active		
	P2097	out of range	I-portion of 2nd lambda control loop	> 0.040 [-	-]	modeled exhaust gas temp.	4001000 [°C]	30.0 [s] continuous	2 DCY
						exhaust gas mass flow	18.00180.00 [kg/h]		
						lambda control	closed loop		
						lambda control	not at min or max limit		
						2nd lambda control	closed loop		
						O2S front	ready		
						O2S rear	ready		
						O2S heater front	active		
						O2S heater rear	active		
						fuel cut off	not active	1	1
						catalyst heating	not active		
						SAI	not active		

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition	Monitoring Time Length	MIL IIIum.
							1 mile zengui	
Fuel System	P2187	system too lean @ idle	adaptive value	> 5.02 [%]	number of injections after engine start	> 1500 [-]	40.0 [s] continuous	2 DCY
					engine speed	< 860 [rpm]		
					mass air flow	< 35 [kg/h] > 59 [°C] < 85 [°C]		
					ECT	> 59 [°C]		
					IAT	< 85 [°C]		
					ratio manifold pressure to ambient pressure	> 0.20 [-]		
					or			
					valve overlap	< 40.00 [°CRK]		
					delta part load adaptation	ready		
					lambda control	closed loop		
					evap purge valve	closed		
	P2188	system too rich @ idle	adaptive value	< -5.02 [%]	number of injections after engine start	> 1500 [-]	40.0 [s] continuous	2 DCY
					engine speed	< 860 [rpm]		
					mass air flow	< 35 [kg/h]		
					ECT	< 35 [kg/h] > 59 [°C] < 85 [°C]		
					IAT	< 85 [°C]		
					ratio manifold pressure to ambient	> 0.20 [-]		
					pressure			
					or			
					valve overlap	< 40.00 [°CRK]		
					delta part load adaptation	ready		
					lambda control	closed loop		
	D0477			> 00 (0/1	evap purge valve	closed	05.0.1-3	0.007
	P2177	system too lean @ part load	adaptive value	> 28 [%]	number of injections after engine	> 1500 [-]	25.0 [s]	2 DCY
					start engine speed	13204600 [rpm]	continuous	
					engine speed engine load	25100 [%]		
					mass air flow	45 300 [kg/h]		
					ECT	45300 [kg/h] > 59 [°C]		
					IAT	< 85 [°C]		
					ratio manifold pressure to ambient	> 0.20 [-]		
					pressure	0.20		
					or			
					valve overlap	< 40.00 [°CRK]		
					lambda control	closed loop		
					evap purge valve	closed		

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition	Monitoring Time Length	MIL IIIum,
	P2178	system too rich @ part load	adaptive value	< -20 [%]	number of injections after engine	> 1500 [-]	25.0 [s]	2 DCY
					start		continuous	
					engine speed	13204600 [rpm]		
					engine load	25100 [%]		
					mass air flow	45300 [kg/h]		
					ECT	> 59 [°C]		
					IAT	< 85 [°C]		
					ratio manifold pressure to ambient	> 0.20 [-]		
					pressure			
					or			
					valve overlap	< 40.00 [°CRK]		
					lambda control	closed loop		
					evap purge valve	closed		
Leak to Intake Manifold	P2279	adaptation value monitoring	offset value throttle mass flow	> 13.00 [kg/h]	desired mass flow	0.0025.00 [kg/h]	10.0 [s]	2 DCY
Leak to intake mainfold	F2219	adaptation value monitoring	onset value unottle mass now	> 15.00 [kg/ii]	desired mass now	0.0025.00 [kg/li]	multiple	2 001
					evap purge valve	closed	manipie	
					EGR	off		
Oxygen Sensors front	P2414	signal range check (check for	threshold 1:		lambda set value	< 1.6 [-]		
"		sensor at ambient air)	signal voltage	3.104.77 [V]	O2S ceramic temp.	> 715 [°C]	15.0 [s]	2 DCY
	Sensor at ambient any						multiple	
			threshold 2:		fuel cut off	not active		
			signal voltage	2.503.06 [V]	heater control	closed loop		
			Depending on gain factor, that		SAI	not active		
			actual is used for sensor		if low fuel signal then wait	> 0.0 [s]		

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition	Monitoring Time Length	MIL Illum.
Oxygen Sensors front	P2195	out of range	delta lambda of 2nd lambda control loop	> 0.065 [-]	modeled exhaust gas temp.	4001000 [°C]	30.0 [s] multiple	2 DCY
					delta engine load	n.a.	· ·	
					exhaust gas mass flow	18.00180.00 [kg/h]		
					lambda control	closed loop		
					2nd lambda control	closed loop		
					O2S front	ready		
					O2S rear	ready		
					O2S heater front	ready		
					O2S heater rear	ready		
					fuel cut off	not active		
					catalyst heating	not active		
					SAI	not active		
					<u>Case 1:</u>			
					1st lambda control loop	not at min or max limit		
					2nd lambda control loop	active		
					Case 2:			
					1st lambda control loop	at min limit		
					O2S front	< 1.0 [-]		
					O2S rear voltage	< 0.4 [V]		
					Case 3:			
				1st lambda control loop	at max limit			
				O2S front	> 1.0[-]			
					O2S rear voltage	> 0.6 [V]		
	P2196	out of range	delta lambda of 2nd lambda control loop	< -0.065 [-]	modeled exhaust gas temp.	4001000 [°C]	30.0 [s] multiple	2 DCY
					delta engine load	n.a.		
					exhaust gas mass flow	18.00180.00 [kg/h]		
					lambda control	closed loop		
					2nd lambda control	closed loop		
					O2S front	ready		
					O2S rear	ready		
					O2S heater front	ready		
					O2S heater rear	ready		
					fuel cut off	not active		
					catalyst heating	not active		
					SAI	not active		
					Case 1:			
					1st lambda control loop	not at min or max limit		
					2nd lambda control loop	active		
					Case 2:			
				1st lambda control loop	at min limit			
					O2S front	< 1.0 [-]		
					O2S rear voltage	< 0.4 [V]		
					Case 3:			
					1st lambda control loop	at max limit		
					O2S front	> 1.0 [-]		
					O2S rear voltage	> 0.6 [V]		

OBD Summary Table MY 11 Issue Date 03-09-2010 Engine Code CBTA OBD-Group BVW-I5 Test-Group BVWXV02.5U35 Revision Date

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition	Monitoring Time Length	MIL IIIum.
	I -							Trane Lengur	
Oxygen Sensors front	P0133	response rate monitoring, area ratio	SYMMETRIC FAULT:			O2S front - min. operation	> 720[[°C]		
		and gradient ratio				temperatur is reached	-		
			difference of R2L area ratio vs. L2R	-1.001.00	[-]	O2S front - time since operation	> 40.0 [s]	107.0 [s]	2 DCY
			area ratio			readiness		once / DCY	
			lower value of both counters for area	>= 4	times	engine speed	11602720 [rpm]		
			ratio R2L and L2R						
			Delay Time:			engine load	13.9970.01 [%]		
			gradient ratio	>= 0.25		gradient of engine load	<= 4.99 [%]		
			lower value of both area ratios R2L	< 0.25	[-]	exhaust system lag time calculation	0.10.5 [s]		
			and L2R						
			Transient Time:			gradient of exhaust system lag time	<= 0.0 [s]		
						calculation			
			gradient ratio	>= 0.25		ECT	>= 62 [°C]		
			gradient ratio	<= 0.40		catalyst temperature	>= 450 [°C]		
			lower value of both area ratios R2L	< 0.25	[-]	lambda control set-point prior to	A/F-Ratio		
			and L2R			diagnostic fuel steps	stoichiometric		
			or			relative fuel amount from wall-	<= 0.1 [-]		
					applied compensation and evap				
					purge				
		lower value of both gradient ratios	< 0.25	[-]	time since last measurement	> 3.0 [s]			
			R2L and L2R						
			ASYMMETRIC FAULT:			gear shifting	n.a.		
			difference of R2L area ratio vs. L2R	NOT (-1.001.00)	[-]	evap purge	not active		
			area ratio						
			values of both counters for area	>= 4	times	or			
			ratio R2L and L2R						
			Delay Time:			evap purge	> 2.0 [s]		
			gradient ratio	>= 0.25		2nd lambda control loop	not active		
			lower value of both area ratios R2L	< 0.25	[-]	forced lambda oscillation	not active		
			and L2R						
			Transient Time:			SAI	not active		
			gradient ratio	>= 0.25		tank leakage detection	not active		
			gradient ratio	<= 0.40		diagnosis evap purge system	not active		
			lower value of both area ratios R2L	< 0.25	[-]	fuel cut off for any cylinders	not active		
			and L2R						
			or			open circuit pump current (IP)	ready		
			lower value of both gradient ratios	< 0.25	[-]	only Flex fuel systems without			
			R2L and L2R			ethanol sensor:			
						ethanol concentration adaptation	not active		
Oxygen Sensors front	P0130	out of range	O2S ceramic temp.	< 640	[[°C]	modeled exhaust gas temp.	> 300 [°C]	15.0 [s]	2 DCY
								multiple	
						fuel cut off	not active		

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition	Monitoring Time Length	MIL IIIum.
Oxygen Sensors front	P2251	open circuit virtual mass (VM)	O2S signal front	1.471.53 [V]	modeled exhaust gas temp.	< 750 [°C]	30.5 [s]	2 DCY
			and		no fuel cut off	> 2.0 [s]	multiple	
			internal resistance	> 950 [Ohm]	heater control	active		
	P2243	open circuit nernst voltage (UN)	O2S signal front	> 4.70 [V]	heater control	active	25.5 [s]	2 DCY
			1				multiple	
			and				'	
			internal resistance	> 950 [Ohm]				
			O2S signal front	< 0.20 [V]			25.5 [s]	2 DCY
							multiple	
			and	. 050/50/1				
	P2626	open circuit adjustment voltage (IA)	internal resistance O2S signal front	> 950 [Ohm] > 4.77 [V]	modeled exhaust gas temp.	< 750 [°C]	2.0 [s]	2 DCY
	Den of	open circuit adjustment voltage (IA)	O25 signal from	74.77[[V]	modeled exhaust gas temp.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	multiple	2 001
					O2S ceramic temp.	> 720 [°C]	manapic	
					fuel cut off	active		
					heater control	closed loop		
					if low fuel signal then wait	> 0.0 [s]		
	P2237	open circuit pump current (IP)	O2S signal front	1.491.51 [V]	O2S ceramic temp.	> 720 [°C]	6.5 [s]	2 DCY
					landada na dulatian	> 0.00[1]	multiple	
			and delta lambda controller	> 0.10 [-]	lambda modulation lambda control	> 0.02 [-] closed loop		
			della lambda controller	7 0.10 [-]	heater control	closed loop		
	P0132	signal range check	short to battery		neater control	Glosed loop		
	1.5.52	Josephan range emean	virtual mass (VM)	> 3.25 [V]			5.0 [s]	2 DCY
			,				multiple	
			or					
			nernst voltage (UN)	> 4.40 [V]				
			or					
			adjustment voltage (IA)	> 7.00 [V]				
			or adjustment voltage (IP)	> 7.00 (1) /1				
	P0131	signal range check	short to ground	> 7.00 [V]				
	FUIST	Signal range check	virtual mass (VM)	< 1.75 [V]			5.0 [s]	2 DCY
			Viitaai iilass (Vivi)	1.70			multiple	2 501
		or						
		nernst voltage (UN)	< 1.50 [V]					
			or					
			adjustment voltage (IA)	< 0.30 [V]				
			or					
			adjustment voltage (IP)	< 0.30 [V]				

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition	Monitoring Time Length	MIL Illum.
Oxygen Sensors rear 2-Point-LSF	P0137	O2S signal check - circuit continuity	signal voltage	< 0.06	[V]	case 1: sensor ready for		3.0 [s]	2 DCY
		(short to ground, core connection				<u>operation</u>		multiple	
		,	for time	> 3.0	[s]	sensor voltage	<= 0.40 [V]		
			and			or	0.50 4.00 0.7		
			difference of sensor voltage with	< 0.01	[[V]	sensor voltage	0.501.08 [V]		
			load pulse and voltage without load			case 2: sensor theoretical ready			
			pulse (mean value of 3			for operation	\$ 40 OF-1		
			measurements)			for time	> 12.0 [s]		
						sensor sufficient heated up if	>= 1263 [°C]		
						exhaust temperature for time	> 18.0[s]		
						or	/ 10.0 [s]		
						heater power	>= 24 [%]		
						for time	> 18.0[s]		
						general:	7 10.0 [3]		
						dew point exceeded			
						fuel cut off	not active		
						catalyst purge	not active		
	P0138	O2S signal check - out of range high	signal voltage	> 1.08	IV1	case 1: sensor ready for		5.0 [s]	2 DCY
		(short to battery plus)				operation		multiple	
			for time	> 5.0	[s]	sensor voltage	<= 0.40 [V]	,	
					-	or	-		
						sensor voltage	0.501.08 [V]		
						case 2: sensor theoretical ready			
						for operation			
						for time	> 12.0 [s]		
						sensor sufficient heated up if			
						exhaust temperature	>= 1263 [°C]		
						for time	> 18.0 [s]		
						or			
						heater power	>= 24 [%]		
						for time	> 18.0 [s]		
						general:			
						dew point exceeded			
						lambda set value	> 0,995 [-]		

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition	Monitoring Time Length	MIL Illum.
Oxygen Sensors rear 2-Point-LSF	P0140	O2S signal check - circuit continuity	signal voltage	0.400.60	[V]	case 1: sensor ready for		30.0 [s]	2 DCY
		(sensor signal line open circuit)				<u>operation</u>		multiple	
			for time	> 3.0	[s]	sensor voltage or	<= 0.40 [V]		
			difference of sensor voltage with	>= 2.80	lrv1	sensor voltage	0.501.08 [V]		
			load pulse and voltage without load		1	case 2: sensor theoretical ready			
			pulse (mean value of 3			for operation			
			measurements)			for time	> 12.0 [s]		
						sensor sufficient heated up if exhaust temperature	>= 1263[°C]		
						for time	> 18.0[s]		
						or	10.0		
						heater power	>= 24 [%]		
						for time	> 18.0 [s]		
						general:			
	P0140	O2S signal check - circuit continuity	internal resistance	> 40000	[Ohm]	dew point exceeded case 1: sensor ready for		30.0 [s]	2 DCY
	150140	(sensor ground line open circuit)	linternal resistance	7 40000		operation		multiple	2 001
		Conservation of the second	and			sensor voltage	<= 0.40 [V]	l'illiana più	
			exhaust temperature	> 670	[°C]	or			
						sensor voltage	0.501.08 [V]		
						case 2: sensor theoretical ready			
						for operation for time	> 12.0 [s]		
						sensor sufficient heated up if	12.0[0]		
						exhaust temperature	>= 1263 [°C]		
						for time	> 18.0 [s]		
						or	> = 0.4 F0/3		
						heater power for time	>= 24 [%] > 18.0 [s]		
						general:	7 10.0[s]		
						dew point exceeded			
						valid Ri-measurements	> 10 times		
0	Inoozo	T-kt-l (:#	Tong -:t	- 0.04 0.0E	In a		I 00.00 400 00[th/b]	1045 O 5-1	2 DCY
Oxygen Sensors rear 2-Point-LSF	P2270	stuck lean (if sensor stuck lean: enrichment)	O2S signal rear not oscillating at reference	< 0.640.65	[V]	mass air flow	22.00120.00 [kg/h]	215.0 [s] once / DCY	2 001
			land			modeled exhaust gas temp.	> 300 [°C]	011007 201	
			enrichment after stuck lean	20	[%]	O2S rear readiness	> 10.0[s]		
						2nd lambda control	closed loop		
	P2271	stuck rich (if sensor stuck rich:	O2S signal rear not oscillating at	> 0.640.65	[V]	mass air flow	22.00120.00 [kg/h]	215.0 [s]	2 DCY
		enleanment) if enleanment is not successful: waiting for next fuel cut	reference and			modeled exhaust gas temp.	> 30016.03	once / DCY	
		off	enleanment after stuck rich	15	[%]	O2S rear readiness	> 300 [°C] > 10.0 [s]		
		[discontinuity and study from		1,01	fuel cut off	> 3.0 [s]		
						2nd lambda control	closed loop		
							35505355555555555555555555555555555555		

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition	Monitoring Time Length	MIL Illum.
Oxygen Sensors Heater front	P0030	open circuit	heater voltage	4.705.40 [V]	time after engine start	> 5 [s]	0.5 [s] continuous	2 DCY
					heater	commanded off		
	P0031	short to ground	heater voltage	0.03.26 [V]	time after engine start	> 5 [s]	0.5 [s] continuous	2 DCY
					heater	commanded off		
	P0032	short to battery plus	signal current	> 5.50 [A]	time after engine start	> 5 [s]	0.5 [s] continuous	2 DCY
					heater	commanded on		
Oxygen Sensors Heater front	P0135	out of range high	O2S ceramic temp.	< 720 [°C]	modeled exhaust gas temp.	> 550 [°C]	70.0 [s] multiple	2 DCY
			and		heater control	active	,	
			heater duty cycle	> 90.00 [%]				
	P0135	rationality check (sensor heating up)	O2S ceramic temp.	< 715 [°C]	ECT @ start	> -10 [°C]	35.0 [s] multiple	2 DCY
			and		engine shut-off-time	> 120.0 [s]	'	
			time after O2S heater on	35.0 [s]	(during ECM keep alive-time after ignition off)	< 500.0 [s]		
					Ilgilition on)			
Oxygen Sensors Heater rear 2- Point-LSF	P0141	out of range	heater resistance	> 120032400 [Ohm] modeled exhaust gas temp.	300680 [°C]	6.0 [s] multiple	2 DCY
					engine shut-off-time	> 120.0 [s]	'	
					(during ECM keep alive-time after ignition off)	< 500.0 [s]		
					number of checks	10.00 [-]		
					fuel cut off	not active		
					heater	commanded on		
9						78/A40/A	mining to Patrician	
Oxygen Sensors Heater rear 2-Point-LSF	P0036	open circuit	heater voltage	2.343.59 [V]	engine speed	> 80 [rpm]	0.5 [s] continuous	2 DCY
					heater	commanded off		
	P0037	short to ground	heater voltage	< 2.34 [V]	engine speed	> 80 [rpm]	0.5 [s] continuous	2 DCY
					heater	commanded off		
	P0038	short to battery plus	heater voltage	> 3.59 [V]	engine speed	> 80 [rpm]	0.5 [s] continuous	2 DCY
					heater	commanded on		

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition	Monitoring Time Length	MIL IIIum.
Oxygen Sensors rear (binary LSF)	P2271	check of response time at fuel cut	sensor voltage of	>= 0.15 [V]]	time of fuel cut off	<= 90.0 [s]	10.0 [s] multiple	2 DCY
			after oxygen mass flow	> 20003500 [m	nal l	time after last fuel cut off	>= 5.0 [s]	· · · · · · · · · · · · · · · · · · ·	
			(after fuel cut off)			O2S rear	ready		
			and			exhaust temperature at sensor	>= 430 [°C]		
			number of checks	>= 1.0 [-]		deviation between expected and	< 8.00 [-]		
						measured front O2-sensor lambda signal	1111		
						after time since fuel cut off at first cylinder	>= 2.0 [s]		
						oscillation check	ready		
						exhaust mass flow	> 12.00 [kg/h]		
						exhaust mass flow dynamic within	-500.00500.00 [kg/h]		
						range	-500.00500.00 [kg/n]		
						sensor voltage at start of	> 0.55 [V]		
						measurement	, 0.55 [v]		
						measurement			1
Cold Start Detection		detection by engine off timer				engine off time	> 21600.0 [s]	100.0 [s]	2 DCY
Sold Start Betestion		detection by origina on times				ongine on anie	21000.0 [0]	once / DCY	1200
								ence / Be i	
Engine Coolant Temperature Sensor	P0118	short to battery / open circuit	ECT	< -40 [°0	C]			2.0 [s] multiple	2 DCY
	P0117	short to ground	ECT	> 140 [°C	C]			2.0 [s] multiple	2 DCY
	P0116	stuck high		thres 01[f(ECT)]:			temp 01	'	
			no change on signal	2 [K]	ECT @ start	50141 [°C]	70.0 [s] once / DCY	2 DCY
						ECT	105141 [°C]		
						cold start	detected		
							temp_02		
						substitute ECT	> -45 [°C]		
						driving condition L:			
						vehicle speed	020 [km/h]		
						mass air flow	4.0040.00 [kg/h]		
						time required /	> 10.0 [s]		
						frequency	3 times		
						and			
						driving condition H:			
						vehicle speed	50150 [km/h]		
						mass air flow	32.00352.00 [kg/h]		
						time required /	> 40.0 [s]		
						frequency	once		

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Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition		Monitoring Time Length	MIL Illum.
Engine Coolant Temperature Sensor	P0116	stuck low	no change on signal	thres 01[f(ECT)]: 2	[K]	ECT @ start	<u>temp 01</u> 50141		70.0 [s]	2 DCY
						ECT cold start	-4275 detected	[°C]	once / DCY	
						substitute ECT driving condition L:	<u>temp_02</u> > -45	[°C]		
						vehicle speed mass air flow	4.0040.00			
						time required / frequency and	> 10.0 3	[s] times		
						driving condition H: vehicle speed	50150	[km/h]		
						mass air flow time required / frequency	32.00352.00 > 40.0 once	[s]		
	P0116	stuck in range	signal in range	75105	[°C]	cold start	detected		100.0 [s] once / DCY	2 DCY
			no change on signal	2	[K]	stuck high ECT @ start	fault <u>temp_01</u> 50141			
						substitute ECT driving condition L:	<u>temp_02</u> > -45			
						vehicle speed mass air flow	4.0040.00	[km/h] [kg/h]		
						time required / frequency and	> 10.0 3	[s] times		
						driving condition H: vehicle speed	50150			
						mass air flow time required / frequency	32.00352.00 > 40.0 once	[s]		
Engine Coolant Temperature	P3081	measured engine coolant temp.	diff. reference model temperature	> 11	[K]				4.0 [s]	2 DCY
Sensor rationality		below reference model	vs. ECT		- 1				continuous	

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition	Monitoring Time Length	MIL Illum.
Coolant System Performance	P2181	cooling system performance not in a expect range	cooling system temperature to low	thers 03: 75 [°C]	begin of air mass integration when	thres 01: 30 [°C]	200.0 [s]	2 DCY
			after a sufficient air mass flow integral		engine temp.	thers_02:	once / DCY	
					ECT @ start AAT	-1060 [°C] -10 [°C]		
					fuel cut off and	not active		
					engine load	1495 [%] airmass 01:		
					integrated air mass depending on engine temp. at start and AAT	413.5 [kg/h]		
					depending on temp. at engine start and min. observed AAT for longer	120180 [s]		
					than depending on temp. at engine start and min. observed AAT for more than	412 [kg]		
					at time of fault decision: average air mass flow	35280 [kg/h]		
					average vehicle speed	30120 [km/h]		
Phase Sensor 1	P0343	rationality check	signal voltage	permanently high			0.5 [s] continuous	2 DCY
			and crankshaft signals	8 [-1				
F	P0342	rationality check	signal voltage	permanently low			0.5 [s] continuous	2 DCY
			and crankshaft signals	8.00 [-]				
<u> </u>	P0341	rationality check	signal pattern	incorrect			0.5 [s] continuous	2 DCY
			defect counter	8.00 [-]				
RPM Sensor	P0321	rationality check	counted teeth vs. reference	incorrect			1.5 [s] multiple	2 DCY
			or monitoring reference gap	failure			multiple	
F	P0322	signal activity check	camshaft signals	> 5.00 [-]			2.5 [s] multiple	2 DCY
			and engine speed	no signal				
Camshaft Position Sensor Inlet	P0016	angular offset check	permissible deviation	< -13.49 [°CRK]			10 [rev] multiple	2 DCY
			or permissible deviation	> 13.49 [°CRK]				

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition	Monitoring Time Length	MIL Illum,
VVT Actuator Intake	P0010	open circuit	signal voltage	4.705.40	[V]	camshaft valve	off	0.5 [s] continuous	2 DCY
	D0000			0.0.005	5.73	engine speed	> 80 [rpm]	0.5.1.1	0.00/
	P2088	short to ground	signal voltage	0.03.25	[V]	camshaft valve	off	0.5 [s] continuous	2 DCY
						engine speed	> 80 [rpm]		
	P2089	short to battery plus	signal current	> 2.20	[A]	camshaft valve	on	0.5 [s] continuous	2 DCY
						engine speed	> 80 [rpm]		
VVT Actuator Intake	P000A	slow response	difference between target position vs. actual position	> 8.0012.00	[°CRK]	time after engine start	> 1.510.0 [s]	21.0 [s] multiple	2 DCY
			for time	> 1.82.5	[s]	engine speed	6006000 [rpm]	, i	
			and			oil temperature	-48143 [°C]		
			adjustment angle	>= 3.00	[°CRK]	frequency (normal operation)	7 times		
	P0011	target error	difference between target position vs. actual position	> 8.0012.00	[°CRK]	time after engine start	> 1.510.0 [s]	21.0 [s] multiple	2 DCY
			for time	> 1.82.5	[s]	engine speed	6006000 [rpm]	'	
			and			oil temperature	-48143 [°C]		
			adjustment angle	< 3.00	[°CRK]	frequency (normal operation)	-48143 [°C] 7 times		
Altitude Sensor	P0606	plausibility check	signal gradient	> 50.00	[hPa]			2.0 [s] multiple	2 DCY
	P0606	plausibility check	signal gradient	< -50.00	[hPa]			2.0 [s] multiple	2 DCY
				9.0					
Altitude Sensor	P0606	short to battery / open circuit	signal voltage	> 4.88	[V]			0.2 [s] multiple	2 DCY
	P0606	short to ground	signal voltage	< 0.20	[V]			0.2 [s] multiple	2 DCY
								manupic	
Manifold Pressure Sensor	P0107	short to ground	signal voltage	< 0.20	[V]			1.0 [s] continuous	2 DCY
	P0108	short to battery / open circuit	signal voltage	> 4.86	[V]			1.0 [s]	2 DCY

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition	Monitoring Time Length	MIL IIIum.
Manifold Pressure Sensor	P0106	rationality check low	difference manifold pressure - lower	< 0 [hPa]			2.5 [s]	2 DCY
			threshold model				multiple	
			model range	45845 [hPa]				
	P0106	rationality check high	difference manifold pressure - upper	> 0 [hPa]			2.5 [s]	2 DCY
			threshold model				multiple	
			model range	6401055 [hPa]				
	P0106	rationality check	diff. altitude sensor signal vs.	> 60.00 [hPa]	time after engine start	< 25.0 [s]	2.5 [s]	2 DCY
			manifold pressure signal at engine				multiple	
			start		engine speed	< 330 [rpm]		
	P0106	adaptation value monitoring	offset value manifold pressure for	> 55.00 [hPa]	driving condition range 1		2.5 [s]	2 DCY
			load calculation in driving condition		(omsna):		multiple	
			range 2		engine speed	< 800 [rpm]		
					desired mass flow	5.0025.00 [kg/h]		
					delta adaptation value range 1	< 0.10 [kg/h]		
					for time	1.0 [s]		
					driving condition range 2 (opsra):			
					engine speed	> 1400 [rpm]		
					manifold pressure	< 425.00 [hPa]		
					delta adaptation value range 2	< 2.97 [hPa]		
					for time	8.0 [s]		
					driving condition range 3 (opua):			
					desired mass flow	> 40.00 [kg/h]		
					manifold pressure	> 550.00 [hPa]		
					delta adaptation value range 3	< 2.97 [hPa]		
					for time	5.0 [s]		
					general:			
					engine operation in every driving	>= 2 times		
					condition			
					diagnosis evap purge system	not active		
					engine speed	5006000 [rpm]		
					manifold pressure	> 0.00 [hPa]		
					ratio manifold pressure to ambient	< 0.85 [-]		
					pressure			

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition	Monitoring Time Length	MIL IIIum.
Manifold Pressure Sensor	P0106	adaptation value monitoring	offset value manifold pressure for load calculation in driving condition range 2	< -60.00 [hPa]	driving condition range 1 (omsna): engine speed desired mass flow delta adaptation value range 1 for time driving condition range 2 (opsra):	< 800 [rpm] 5.0025.00 [kg/h] < 0.10 [kg/h] 1.0 [s]	2.5 [s] multiple	2 DCY
					engine speed manifold pressure delta adaptation value range 2 for time driving condition range 3 (opua):	> 1400 [rpm] < 425.00 [hPa] < 2.97 [hPa] 8.0 [s]		
					desired mass flow manifold pressure delta adaptation value range 3 for time general:	> 40.00 [kg/h] > 550.00 [hPa] < 2.97 [hPa] 5.0 [s]		
					engine operation in every driving condition diagnosis evap purge system engine speed manifold pressure	>= 2 times not active 5006000 [rpm] > 0.00 [hPa]		
					ratio manifold pressure to ambient pressure	< 0.85 [-]		
Boost Pressure Sensor	P0107	short to ground	signal voltage	< 0.20 [V]	engine speed	> 60 [rpm]	0.5 [s] continuous	2 DCY
	P0108	short to battery / open circuit	signal voltage	> 4.86 [V]	engine speed	> 60 [rpm]	0.5 [s] continuous	2 DCY
Intake Air Temperature Sensor	P0112	short to ground	IAT	> 130 [°C]			5.0 [s] multiple	2 DCY
	P0113	short to battery / open circuit	IAT	< -46 [°C]			5.0 [s] multiple	2 DCY
Ambient Air Temperature Sensor	P0072	short to ground	ambient air temperature	> 87 [°C]	CAN	active	6.00 [s] multiple	2 DCY
	P0070	short to battery / open circuit	ambient air temperature	< -50 [°C]	CAN	active	6.00 [s] multiple	2 DCY

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Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition	Monitoring Time Length	MIL Illum.
Intake Air Temperature	P0111	cross check	diff. ECT vs. IAT at engine start	> 25	[K]	engine off time	> 6 [h]	0 [s]	2 DCY
			(depending on engine off time) and diff. IAT vs. AAT at engine start (depending on engine off time)	> 25	[K]	Blockheater ECT @ start minus ECT @ condition:	< 2 [K]	once / DCY	
			and diff. AAT vs. ECT at engine start	< 25	[K]	time after engine start solar radiation case 1:	180.0 [s]		
			(depending on engine off time)		. 4	AAT @ start minus	<= 2 [K]		
						AAT @ condition: vehicle speed for time	> 40 [km/h] > 5.0 [s]		
						solar radiation case 2: IAT @ start	<= 2 [K]		
						minus IAT @ condition: vehicle speed	> 40 [km/h]		
						for time	> 5.0 [s]		
Ambient Air Temperature	P0071	cross check	diff. ECT vs. IAT at engine start	< 25	[K]	engine off time	> 6 [h]	0 [s] once / DCY	2 DCY
			(depending on engine off time) and diff. IAT vs. AAT at engine start	> 25	[K]	Blockheater ECT @ start minus	< 2 [K]	once / DC1	
			(depending on engine off time) and diff. AAT vs. ECT at engine start	> 25	[K]	ECT @ condition: time after engine start solar radiation case 1:	180.0 [s]		
			(depending on engine off time)			AAT @ start minus AAT @ condition:	<= 2 [K]		
						vehicle speed for time	> 40 [km/h] > 5.0 [s]		
						solar radiation case 2: IAT @ start minus IAT @ condition:	<= 2 [K]		
						vehicle speed for time	> 40 [km/h] > 5.0 [s]		
	DOED4				FL 83	le la se	. [Tanna r	lo pov
Vehicle Speed	P0501	plausibility check	vehicle speed	< 4	[km/h]	fuel cut off	active	1980 [ms] multiple	2 DCY
						engine speed ECT	15204520 [rpm] > 40 [°C]		

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition	Monitoring Time Length	MIL Illum.
Knock Sensor	P0327	short to ground Port B	lower threshold	< -0.70	[V]	engine speed	> 1000 [rpm]	0.5 [s] continuous	2 DCY
	P0332								
	P0327	short to ground Port A	lower threshold	< -0.70	[V]	engine speed	> 1000 [rpm]	0.5 [s] continuous	2 DCY
	P0332		9 1 11		D /2		4000	0.5.7.	0.50)/
	P0328 P0333	short to battery plus Port B	upper threshold	> 1.00	[V]	engine speed	> 1000 [rpm]	0.5 [s] continuous	2 DCY
	P0328	short to battery plus Port A	upper threshold	> 1.00	[V]	engine speed	> 1000 [rpm]	0.5 [s] continuous	2 DCY
	P0333								
	P0327	signal range check	lower threshold	< 0.555.60	[V]	engine speed	> 2000 [rpm]	2.0 [s] multiple	2 DCY
	P0332					ECT	> 41 [°C]		
	P0328	signal range check	upper threshold	> 16.5092.00	[V]	engine load engine speed	> 30.0037.50 [%] > 2000 [rpm]	2.0 [s]	2 DCY
	P0333					ECT engine load	> 41 [°C] > 30.0037.50 [%]	multiple	
anawa wa sa						Terriginio lodo			
Knock Control	P0324	internal hardware check	signal fault counter (combustion)	> 30.00	[-]	engine speed	> 2000 [rpm]	0.5 [s] continuous	2 DCY
			or signal fault counter (measuring window)	> 2.00	[-]				
Throttle Position Sensor 1	P0122	out of range low	signal voltage	< 0.20				0.1 [s] multiple	2 DCY
	P0123	out of range high	signal voltage	> 4.81	[V]			0.1 [s] multiple	2 DCY
	P0121	rationality check	TPS1-TPS2	> 5.16.3	[%]	engine speed	> 480 [rpm]	0.3 [s] multiple	2 DCY
			and actual TPS1-calc.value	> actual TPS2- calc.value					
			or TPS1 - calc.value	> 9.00	[%]				
Threattle Desition Comment	Ipono	Tout of rooms love	Taignal valtage	1 0 001	r\ /1		T	In 4 (a)	la DOV
Throttle Position Sensor 2	P0222	out of range low	signal voltage	< 0.20				0.1 [s] multiple	2 DCY
	P0223	out of range high	signal voltage	> 4.81	[V]			0.1 [s] multiple	2 DCY
	P0221	rationality check	TPS1-TPS2	> 5.16.3	[%]	engine speed	> 480 [rpm]	0.3 [s] multiple	2 DCY
			and actual TPS2-calc.value	> actual TPS1- calc.value					
			or TPS2 - calc.value	> 9.00	[%]				

Component / System	·	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition	Monitoring Time Length	MIL Illum.
Throttle Actuator	P2106	short to battery plus/ short to ground	I internal check	failed				0.5 [s]	2 DCY
	P2106	open circuit	internal check	failed		duty cycle	> 80 [%]	multiple 0.5 [s]	2 DCY
	F2100	open circuit	internal check	lalled		duty cycle	> 80 [70]	multiple	2 001
						or deviation throttle value angles vs. calculated value	> 4.0050.00 [%]		
	P2106	temperatur / current monitoring	internal check	failed				0.5 [s] multiple	2 DCY
	P2106	functional check	internal check	failed				0.5 [s] multiple	2 DCY
	P2101	signal range check	duty cycle	> 80	[%]			5.0 [s] multiple	2 DCY
			and ECM power stage	no failure					
	P2101	rationality check	deviation throttle value angles vs. calculated value	> 4.0050.00				0.5 [s] multiple	2 DCY
	1714 								
Throttle Actuator Basic Settings	P0638	rationality check close movement	time to close to reference point	> 0.6	[s]	engine speed	0 [rpm]	5.0 [s] multiple	2 DCY
			and			vehicle speed	0 [km/h]	·	
			reference point	2.88	[%]	ECT IAT	> -20 [°C] > -20 [°C]		
						Case 1:	> -20 [C]		
						ignition	on		
						<u>Case 2:</u>			
						engine shut-off-time number of checks	4 [s] 2.00 [-]		
	P0638	signal range check @ mechanical stop low	TPS 1 signal voltage	NOT (0.400.80)	[V]	engine speed	0 [rpm]	0.3 [s] multiple	2 DCY
		0.0p 10 W	or			vehicle speed	0 [km/h]	manapio	
			TPS 2 signal voltage	NOT (4.204.60)	[V]	Case 1:			
			or TPS1 + TPS2	NOT (4.825.18)	L/1	ignition ECT	on -20115 [°C]		
			11-31-11-32	14.023.10)	[]	IAT	-20143 [°C]		
						Case 2:			
						engine shut-off-time	4[s]		
				Namo (a)		ECT IAT	5115 [°C] 5143 [°C]		
Accelerator Position Sensor 1	P2122	out of range low	signal voltage	< 0.61	[V]			0.50 [s]	2 DCY
	P2123	out of range high	signal voltage	> 4.79	[V]			continuous 0.50 [s]	2 DCY
								continuous	
Accelerator Position Sensor 2	P2127	out of range low	signal voltage	< 0.27	Ιινι			0.5 [s]	2 DCY
		_						continuous	
	P2128	out of range high	signal voltage	> 2.43	[V]			0.5 [s] continuous	2 DCY

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition	Monitoring Time Length	MIL IIIum.
Accelerator Position Sensor 1	P2138	rationality check	signal voltage sensor 1 vs. 2	> 0.170.70 [V]	signal voltage sensor 1	> 445.00 [mV]	0.24 [s] continuous	2 DCY
					signal voltage sensor 2	> 445.00 [mV]		
Idle Controller	P0506	out of range low	engine speed deviation	> 100 [rpm]	time after engine start	> 0.0 [s]	7.0 [s] multiple	2 DCY
			and		engine speed	idle		
			RPM controller torque value	>= calculated max. value	vehicle speed	0 [km/h]		
					altitude	< 2700 [m]		
					ECT IAT	> -48 [°C] > -48 [°C]		
					vehicle speed	ready		
					external torque request	not demanded		
						for manual transmission:		
					engine load	< 34.50 [%]		
	P0507	out of range high	engine speed deviation	< -100 [rpm]	time after engine start	> 0.0 [s]	7.0 [s] multiple	2 DCY
			and		engine speed	idle	1 '	
			RPM controller torque value	<= calculated min. value	vehicle speed	0 [km/h]		
					altitude	< 2700 [m]		
					ECT	> -48 [°C]		
					IAT	> -48 [°C]		
					vehicle speed external torque request	ready not demanded		
					jexternal torque request	not demanded		
Injection Valves	P0201	open circuit	signal voltage	4.505.50 [V]	injection valve	switched off	0.50 [s] continuous	2 DCY
	P0202				engine speed	> 80 [rpm]		
	P0204							
	P0205 P0203							
	P0203 P0261	short to ground	signal voltage	< 3.00 [V]	injection valve	switched off	0.50 [s]	2 DCY
	D0004					200 [continuous	
	P0264 P0270				engine speed	> 80 [rpm]		
	P0270							
	P0267							
	P0262	short to battery plus	signal current	2.204.00 [A]	injection valve	switched on	0.50 [s] continuous	2 DCY
	P0265				engine speed	> 80 [rpm]		
	P0271				'			
	P0274							
	P0268							

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition	Monitoring Time Length	MIL Illum.
Fuel Pump Relay	P0627	open circuit	signal voltage	4.505.50	V]	pump relay	commanded off	0.50 [s] continuous	2 DCY
	D0007			10005	\ /3	engine speed	> 80 [rpm]	0.501.3	0.000/
	P0627	short to ground	signal voltage	< 3.00	Vj	pump relay	commanded off	0.50 [s] continuous	2 DCY
						engine speed	> 80 [rpm]		2.50%
	P0629	short to battery plus	signal current	0.601.20	A]	pump relay	commanded on	0.50 [s] continuous	2 DCY
					0.000.000.000.000.000	engine speed	> 80 [rpm]		
[= : 0:s=:	IDAEOA	T : 6 : 25:	Tues	1 40.01		J. 6 504 6 5		100013	lo p o v
Engine-Off-Time	P150A	comparison of engine off time from instrument cluster control unit with	difference between engine-off-time and ECM after-run time	< -12.0	s]	key-on after ECM after-run time	active 	6.00 [s] once / DCY	2 DCY
	D4504	engine after run time	1100 3 4 5 60 11	10.0	_	CAN	active	0.001.1	0.000/
	P150A	comparison of engine off time from instrument cluster control unit with	difference between engine-off-time and ECM after-run time	> 12.0	sj	key-on during ECM after-run time	active	6.00 [s] once / DCY	2 DCY
		engine after run time				CAN	active		
	Inc. (a.e.		J===	l Jole	•			10011	la navi
Fan Control Coolant Temperature Sensor		short to battery / open circuit	ECT outlet	< -40 [2.0 [s] continuous	2 DCY
	P2184	short to ground	ECT outlet	> 140 [°C]			2.0 [s] continuous	2 DCY
Ignition Coils	P0351	open circuit	signal current	0.252.0	mA]	engine speed	> 680 [rpm]	2.0 [s] continuous	2 DCY
	P0352 P0354 P0355 P0353		or internal check	failed					
	P2300	short to ground	signal current	> 24.0 [mA]	engine speed	> 680 [rpm]	2.0 [s]	2 DCY
	P2303 P2309 P2312 P2306							continuous	
	P2301	short to battery plus	signal voltage	> 5.17.0	V]	engine speed	> 680 [rpm]	2.0 [s] continuous	2 DCY
	P2304 P2310 P2313							oorrandodo	
	P2307								
ECM: WDA	P0606	function monitoring: WDA	general cause	failure				0.5 [s] continuous	2 DCY
	P0606	function monitoring: WDA	internal check	failure				0.5 [s] continuous	2 DCY
	P0606	function monitoring: WDA	overvoltage detection	failure				0.5 [s] continuous	2 DCY
ECM: EEPROM	P0606	EEPROM check	check	failed				0.5 [s] continuous	2 DCY

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Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition	Monitoring Time Length	MIL Illum
ECM: Self Check for Sensor IC	P0606	internal hardware check (electrical adjustment communication, voltage supply)	check	failed			0.50 [s] continuous	2 DCY
ECM: Sensor Reference Circuit A	P0641	signal range check	signal voltage deviation	> +/- 0.3 [V]			0.5 [s] continuous	2 DCY
ECM: Sensor Reference Circuit B	P0651	signal range check	signal voltage deviation	> +/- 0.3 [V]			0.5 [s] continuous	2 DCY
ECM: Sensor Reference Circuit C	P0697	signal range check	signal voltage deviation	> +/- 0.3 [V]			0.5 [s] continuous	2 DCY
ECM: 5V Supply Voltage	P0606	internal hardware check	under-/ overvoltage detection				2.0 [s] continuous	2 DCY
ECM: EGAS module	P0606	function monitoring: A/D converter	test voltage / test pulse check	failed			0.5 [s] continuous	2 DCY
ECM: EGAS module	P0606	function monitoring: torque	comparison with allowed engine torque	incorrect	internal engine speed	> 600 [rpm]	0.5 [s] continuous	2 DCY
ECM: EGAS module	P0606	function monitoring: engine speed devation	difference between calculated and internal engine speed	> 320 [rp	m] internal engine speed	> 520 [rpm]	0.5 [s] continuous	2 DCY
ECM: EGAS module	P0606	function monitoring: ignition timing	internal check	failed			0.5 [s] continuous	2 DCY
ECM: EGAS module	P0606	function monitoring: intern	system reaction	incorrect			0.5 [s] continuous	2 DCY
	P0606	function monitoring: injection rate limitation	system reaction	incorrect			0.5 [s] continuous	2 DCY
ECM: EGAS module	P0169	function monitoring: injection time	comparison with fuel quantity	incorrect	internal engine speed	> 1200 [rpm]	0.5 [s] continuous	2 DCY
ECM: EGAS module	P0169	function monitoring: lambda mode	internal check	failed	internal engine speed	> 1200 [rpm]	0.5 [s] continuous	2 DCY
ECM: EGAS module	P0606	function monitoring: accelerator position	internal check	failed			0.5 [s] continuous	2 DCY

OBD Summary Table MY 11 Issue Date 03-09-2010 Engine Code CBTA OBD-Group BVW-I5 Test-Group BVWXV02.5U35 Revision Date

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value		Secondary Parameters	Enable Condition	Monitoring Time Length	MIL Illum.
ECM: EGAS module	P0169	function monitoring: mixture control	correction factor	incorrect	t i	internal engine speed	> 1200 [rpm]	0.5 [s] continuous	2 DCY
	P0169	function monitoring: mixture control	fuel quantity	incorrect				0.5 [s] continuous	2 DCY
ECM: EGAS module	P0606	monitoring modul	function controller check and monitoring module check	failed		SPI-interface	no failure	0.5 [s] continuous	2 DCY
			Internet in a model of the control o	The faller					
ECM: EGAS module	P0169	function monitoring: load plausibility	abs. difference between predicted and real air mass	> 11.30	[%]	engine speed	>= 1200 [rpm]	0.5 [s] continuous	2 DCY
									3 4 11 11 11 11 11
CAN: Vehicle Speed Sensor	U0415	CAN communication with Vehicle Speed Sensor	speed sensor signal: initialisation error	327.08	[km/h]	time after ignition on	500 [ms]	1980 [ms] continuous	2 DCY
	U0415	CAN communication with Vehicle Speed Sensor	speed sensor signal: low voltage error	327.25	[km/h]	time after ignition on	500 [ms]	1980 [ms] continuous	2 DCY
	U0415	CAN communication with Vehicle Speed Sensor	speed sensor signal: sensor error	327.42	[km/h]	time after ignition on	500 [ms]	480 [ms] continuous	2 DCY
	U0415	CAN communication with Vehicle Speed Sensor	vehicle speed	>= 325	[km/h]	time after ignition on	500 [ms]	2100 [ms] continuous	2 DCY
	U0415	CAN communication with Vehicle Speed Sensor	speed sensor signal: out of range	326.39	[km/h]	time after ignition on	500 [ms]	480 [ms] continuous	2 DCY
CAN: Internal Fault	P0606	CAN controller RAM check	RAM error	memory checksum error		initialization phase		none [-] once / DCY	2 DCY
CAN: CAN-Bus A	U0001	reading back sent message	CAN message	no feedback		time after ignition on	500 [ms]	250 [ms] continuous	2 DCY
	U0002	CAN communication check	global time out	receiving no message)	time after ignition on	500 [ms]	450 [ms] continuous	2 DCY
CAN: TCM	U0101	CAN communication with TCM	received CAN message	no message		time after ignition on	500 [ms]	500 [ms] continuous	2 DCY
	U0402	CAN communication with TCM	received data	implausible message		time after ignition on	500 [ms]	60 [ms] continuous	2 DCY

OBD Summary Table MY 11
Issue Date 03-09-2010 Engine Code CBTA
OBD-Group BVW-I5 Test-Group BVWXV02.5U35 Revision Date

Component / System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameters	Enable Condition	Monitoring Time Length	MIL IIIum.
CAN: TCM	U0302	CAN communication with TCM	recieved AT vehicle data	TCM signal	time after ignition on	500 [ms]	5000 [ms] continuous	2 DCY
CAN: Instrument Cluster	U0155	CAN communication with Instument Cluster Modul	received CAN message	no message	time after ignition on	500 [ms]	2000 [ms] continuous	2 DCY
Musikin/ausikoskiisuliitukkiissa sasuusilisipsa	U0423	CAN communication with Instument Cluster Modul	received data	implausible message	time after ignition on	500 [ms]	3000 [ms] continuous	2 DCY
CAN: Ambient Air Temperature Gensor	U0423	communication with Instument Cluster Modul	ambient temperatur value (initialization)	00h [-]	key on status ambient temperatur from instrument cluster electrical check ambient temperature sensor	no fault no fault	3.0 [s] continuous	2 DCY
AN: Gateway	U0146	CAN communication with Gateway	received CAN message	no message	time after ignition on	500 [ms]	500 [ms] continuous	2 DCY
CAN: Brake Unit	U0121	CAN communication with Brake Unit	received CAN message	no message	time after ignition on	500 [ms]	500 [ms] continuous	2 DCY
	U0415	CAN communication with Brake Unit	received data	implausible message	time after ignition on	500 [ms]	400 [ms] continuous	2 DCY

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Wed 3/10/2010 9:30:05 PM

Subject: Re: VW Group: MY 2010 Bugatti Running Change Test Waiver Request Submitted to

Verify

Yes, I see it. I'm backed up today but I'd like to call and ask a few questions about it tomorrow.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 03/10/2010 11:37 AM

Subject: VW Group: MY 2010 Bugatti Running Change Test Waiver Request Submitted to Verify

Hello Jim.

This is just a "heads-up" for the running change test waiver request that I just submitted to Verify. Bugatti is bumping up the engine output to 1200 h.p..

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]; N=Lynn

Sohacki/OU=AA/O=USEPA/C=US@EPA[]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 3/15/2010 3:16:57 PM

Subject: Re: VW Group: Request for ORVR Approval

CBI BADXR0155D4Q RFA ORVR R00.PDF

Yes, Lynn is still the person for reviewing ORVR systems.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 03/12/2010 02:32 PM

Subject: VW Group: Request for ORVR Approval

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I have just submitted an ORVR system approval request to Verify, addressed to you, for MY 2011 Evap/Refueling Family BADXR0155D4Q. I attached a copy for your convenience. I'm not sure who I needed to address it to. Does Lynn Sohacki still review ORVR systems?

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This new Evap/Refueling Family uses a Natural Vacuum Leak Detection system (NVLD) that is new technology for the Volkswagen Group. Otherwise, the system is similar to our other evap families.

Please alert whomever is responsible for ORVR review to this submission.

Best regards,

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Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: Robert.Hart@vw.com[]

Cc: []
Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Mon 3/15/2010 5:42:22 PM

Subject: Fw: VW Group: Request for ORVR Approval

CBI BADXR0155D4Q RFA ORVR R00.PDF

Hi, Bob.

Since I almost never get onto Verify, please e-mail the ORVR file to me. After we complete the review, I will fax the cover sheet back to you with "Accepted and Reviewed" written on it. Manufacturers usually scan this and put it into the documents files with the ORVR application.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 03/15/2010 01:38 PM -----

From: Jim Snyder/AA/USEPA/US

To: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>, Lynn Sohacki/AA/USEPA/US@EPA

Date: 03/15/2010 11:16 AM

Subject: Re: VW Group: Request for ORVR Approval

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Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []

Bcc: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 3/15/2010 5:59:26 PM

Subject: RE: VW Group: MY 2010 Bugatti Running Change Test Waiver Request Submitted to

Verify

Bob, I waived the Bugatti request this morning. Did you receive an email notification of it from Verify?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 03/15/2010 07:50 AM

Subject: RE: VW Group: MY 2010 Bugatti Running Change Test Waiver Request Submitted to Verify

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According to Germany, the 1200 hp engine has a modification to the catalyst coating but the precious metal loading stays at the same level. Bugatti uses EPA assigned DF's so it would still be covered within the same durability group statistic.

Let me know if you have any other questions.

Best regards,

Bob Hart

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Wednesday, March 10, 2010 4:30 PM

To: Hart, Robert (VWoA)

Subject: Re: VW Group: MY 2010 Bugatti Running Change Test Waiver Request Submitted to Verify

Yes, I see it. I'm backed up today but I'd like to call and ask a few questions about it tomorrow.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

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Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Hart, Robert (VWoA)"

Sent: Mon 3/15/2010 6:14:02 PM

Subject: FW: VW Group: Request for ORVR Approval

CBI BADXR0155D4Q RFA ORVR R00.PDF

Hello Lynn,

The Request for ORVR Approval is attached.

Best regards,

Bob Hart

Robert Hart

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Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Monday, March 15, 2010 1:42 PM

To: Hart, Robert (VWoA)

Subject: Fw: VW Group: Request for ORVR Approval

Hi, Bob.

Since I almost never get onto Verify, please e-mail the ORVR file to me.

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Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 03/15/2010 01:38 PM -----

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To: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>, Lynn Sohacki/AA/USEPA/US@EPA

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(734) 214-4946
snyder.jim@epa.gov

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Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

(See attached file: CBI_BADXR0155D4Q_RFA_ORVR_R00.PDF)

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Hart, Robert (VWoA)" **Sent:** Mon 3/15/2010 6:21:07 PM

Subject: RE: VW Group: MY 2010 Bugatti Running Change Test Waiver Request Submitted to

Verify

mailto:Snyder.Jim@epamail.epa.gov

Hello Jim,

I just checked and I have the notification.

Thanks,

Bob Hart

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Monday, March 15, 2010 1:59 PM

To: Hart, Robert (VWoA)

Subject: RE: VW Group: MY 2010 Bugatti Running Change Test Waiver Request Submitted to Verify

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Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

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Date:

03/15/2010 07:50 AM

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"Hart, Robert (VWoA)" < Robert. Hart@vw.com>

To:

Jim Snyder/AA/USEPA/US@EPA

Date:

03/10/2010 11:37 AM

Subject:

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Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: Robert Peavyhouse/AA/USEPA/US@EPA[]

Cc: Jim Snyder/AA/USEPA/US@EPA[]

From: "Thomas, Richard"

Sent: Tue 3/16/2010 11:47:49 AM

Subject: 2009 Volkswagen Group Final LDT CAFE

2009 CAFE LDT VWX VER01.txt

Hello Bob;

Thanks for returning my phone call yesterday. Please find the 2009 Volkswagen Group LDT Final CAFE CFEIS file as you suggested we start the 2009 model year EPA CAFE calculation process. I understand this will be the last year where we continue using the old CFEIS system for this submission. Would you return the calculation to me via an email or through the Verify mail system?

Best regards, Richard E. Thomas VOLKSWAGEN GROUP OF AMERICA, INC. 3800 Hamlin Road Auburn Hills, MI48326 Engineering and Environmental Office (EEO)

Phone: 248 754-4213 Fax: 248 754-4207

Richard.Thomas@VW.com

FS 590 2009 8 37891 24.6421 24.6 24.6 23.1 ZZ F1 590 001 2009 219 6 G M 00 Y Y N N N 04 N 8 F2 01 S6 4 2 N N 3 C N FR 01 O 4.148 2.370 1.556 1.155 0.859 0.686 FR 02 O 4.171 2.340 1.521 1.143 0.867 0.691 FL 01 L 0 0 650 650 650 FL 01 H 0 0 2000 2000 2000 FL 02 L 0 0 700 700 700 FL 02 H 0 0 2000 2000 2000 FC TOUAREG and AUDI Q7 3.6L VR6 FF 590 01 140 01 001 01 4.56 BHK 01 5500 20.3 3 9VWXT03.6276 2955 FF 590 02 320 01 002 02 4.56 BHK 01 5500 20.4 3 9VWXT03.6276 6086 FT 001 01 C 1074468 01 FT 001 01 H 1074469 01 FT 002 01 C 1078851 01 FT 002 01 H 1078852 01 F1 590 002 2009 254 8 G M 00 Y Y N N N 04 N 8 F2 01 S6 4 2 N N 3 C N FR 01 O 4.148 2.370 1.556 1.155 0.859 0.686 FL 01 L 0 1100 1100 1100 1100 1100 FL 01 H 0 6900 6900 6900 6900 6900 FC Audi Q7 4.2L FSI V8 FF 640 01 320 01 001 01 4.32 BAR 01 6000 21.1 3 9ADXT04.23UD 1194 FT 001 01 C 1085901 00 FT 001 01 H 1085902 00 ZZ F1 590 003 2009 254 8 G M 00 Y Y N N N 04 N F2 01 S6 4 2 N N 3 C N FR 01 O 4.148 2.370 1.556 1.155 0.859 0.686 FL 01 L 0 1100 1100 1100 1100 1100 FL 01 H 0 6900 6900 6900 6900 6900 FC TOUAREG 4.2L V8 FF 640 02 140 01 001 01 4.32 BAR 01 5500 20.3 3 9ADXT04.23UD 96 FT 001 01 C 1085334 01 FT 001 01 H 1085335 01 ZZ F1 590 004 2009 181 6 D M 00 Y N N Y N 04 N F2 01 S6 4 2 N N 3 C N FR 01 O 4.148 2.370 1.556 1.155 0.859 0.686 FL 01 L 0 1100 1100 1100 1100 1100 FL 01 H 0 4300 4300 4300 4300 4300 FC TOUAREG V6 3.0L TDI FF 590 01 140 01 001 01 3.90 CATA 01 5500 20.4 3 9ADXT03.03LD 833 FT 001 01 C 9ADX10000221 00 FT 001 01 H 9ADX10000222 00 ZZ F1 590 005 2009 181 6 D M 00 Y N N Y N 04 N 8 F2 01 S6 4 2 N N 3 C N FR 01 O 4.148 2.370 1.556 1.155 0.859 0.686 FL 01 L 0 1100 1100 1100 1100 1100 FL 01 H 0 4300 4300 4300 4300 4300 FC AUDI Q7 V6 3.0L TDI FF 590 01 320 01 001 01 3.90 CATA 01 6000 19.7 3 9ADXT03.03LD 1120 FT 001 01 C 9ADX10000016 00

FT 001 01 H 9ADX10000017 00 ZZ F1 590 006 2009 194 6 G M 00 Y Y N N N 04 N 8 F2 01 S6 4 2 N N 3 C N FR 01 O 4.171 2.340 1.521 1.143 0.867 0.691 FL 01 L 0 1100 1100 1100 1100 1100 FL 01 H 0 3100 3100 3100 3100 3100 FC Audi Q5 3.2L V6 FF 640 01 330 01 001 01 4.22 CALB 01 4500 12.0 3 9ADXT03.23UC 6531 FT 001 01 C 9ADX10001141 00 FT 001 01 H 9ADX10000643 00 ZZ F1 590 007 2009 121 4 G M 00 Y Y N Y N 04 N 8 F2 01 S6 4 2 N N 3 C N F2 02 S6 F 2 N N 3 C N F2 03 M6 F 2 N N N N N FR 01 O 3.949 2.303 1.556 1.164 0.860 0.688 FR 02 O 3.949 2.303 1.556 1.164 0.860 0.688 FR 03 O 3.923 2.158 1.895 1.379 1.091 0.917 FL 01 L 0 0 760 760 760 0 FL 01 H 0 0 3100 2300 1675 0 FL 02 L 0 0 760 760 760 0 FL 02 H 0 0 3100 2300 1675 0 FL 03 1 0 FC TIGUAN 4MOTION TIGUAN fwd 2.0L FF 590 01 165 01 001 01 4.24 CCTA 01 4000 16.6 3 9ADXV02.03UA 7315 FF 590 01 160 02 002 02 4.24 CCTA 01 3875 15.9 3 9ADXV02.03UA 11317 FF 590 01 160 03 003 03 3.30 CCTA 01 3875 14.4 3 9ADXV02.03UA 444 FT 001 01 C 1080420 00 FT 001 01 C 1080427 00 FT 001 01 С 1080428 00 FT 001 01 С 1080434 00 FT 001 01 Н 1080421 00 FT 002 01 С 9008456 01 FT 002 01 H 9008416 01 FT 003 01 C 1080444 00 FT 003 01 H 1080700 00 ZZ

Ex. 7 To: @vw.com] Cc: Bcc: From: CN=Jim Snyder/OU=AA/O=USEPA/C=US Sent: Tue 3/16/2010 7:42:43 PM Subject: Re: VW/AUDI Meeting March 18, 2010 Thanks, I forwarded it so we can look at it beforehand. Do you have a projector or do I need to reserve one? Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov From: Ex. 7 @vw.com> To: Jim Snyder/AA/USEPA/US@EPA Cc: @vw.com>, Ex. 7 @AUDI.DE>, @volkswagen.de>, Ex. 7 Ex. 7 @vw.com> Ex. 7 Date: 03/16/2010 10:22 AM Subject: VW/AUDI Meeting March 18, 2010 Hello Jim: In preparation for our meeting on March 18, 2010, I am providing, as a refresher, the report from our last meeting on January 27, 2010, including the presentation material. Also attached is the new presentation material. Please treat all materials as CONFIDENTIAL. See you on Thursday. Best regards, Ex. 7 Ex. 7 **Engineering and Environmental Office**

Volkswagen Group of America, Inc.

Ex. 7

E-Mail: **Ex. 7** @vw.com

[attachment "Viicrosoft PowerPoint - EPA_agenda_presentation_Jan_2010_part1.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "Microsoft PowerPoint - EPA_agenda_presentation_Jan_2010_part2.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "Meeting Report_JAN_27_2010.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "00_Agenda_EPA_Cert.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "01_ HEV_EPA_Cert_f.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "02_ EPA_operation_mode.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "03_EPA_EV_FCEV.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "04_ HEV_EPA_Cert_f.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "05_EPA_test_matrix_types.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "06_EPA_Coldstart_valve.pdf" deleted by Jim Snyder/AA/USEPA/US]

To: From: Sent: Subject:	Jim Snvder/AA/USEPA/US@EPA[] Ex. 7 Wed 3/17/2010 1:48:31 AM RE: VW/AUDI Meeting March 18, 2010
Hi Jim:	
l will brin	g a projector.
Thanks,	
Ex. 7	7
Sent: Tue	yder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov] esday, March 16, 2010 3:43 PM Ex. 7
Thanks,	I forwarded it so we can look at it beforehand.
Do you h	ave a projector or do I need to reserve one?
Compliar United St (734) 214	ry Vehicle Group nce and Innovative Strategies Division rates Environmental Protection Agency
From:	Ex. 7
To:	Jim Snyder/AA/USEPA/US@EPA
Cc:	
	Ex. 7

Date:

03/16/2010 10:22 AM

Subject:

VW/AUDI Meeting March 18, 2010

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Also attached is the new presentation material.

Please treat all materials as CONFIDENTIAL.

See you on Thursday.

Best regards,



Volkswagen Group of America, Inc.

Ex. 7

[attachment "Microsoft PowerPoint - EPA_agenda_presentation_Jan_2010_part1.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "Microsoft PowerPoint - EPA_agenda_presentation_Jan_2010_part2.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "Meeting Report_JAN_27_2010.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "00_Agenda_EPA_Cert.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "01_ HEV_EPA_Cert_f.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "02_ EPA_operation_mode.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "03_EPA_EV_FCEV.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "04_ HEV_EPA_Cert_f.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "05_EPA_test_matrix_types.pdf" deleted by Jim Snyder/AA/USEPA/US] [attachment "06_EPA_Coldstart_valve.pdf" deleted by Jim Snyder/AA/USEPA/US]

[]

Bcc:

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 3/18/2010 8:38:22 PM **Subject:** possible Cert preview dates

Ex. 7 checked my calendar and it looks pretty open right now. 4/6 and 4/15 are busy but good otherwise. So just let me know when works for you guys.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

To: Jim Snyder/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Chris

Nevers/AA/USEPA/US@EPA[]; tephen Healy/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA[]; hris Nevers/AA/USEPA/US@EPA[]

From: Ex. 7

Sent: Mon 3/22/2010 7:17:16 PM

Subject: Test Report

Hello Jim, Steve and Chris:

As a follow-up to our meeting last week, one of my colleagues in Germany has asked if EPA could possibly "...share a SOC test protocol and the +/- 1% criteria calculation...". Normally, the reference to protocol means report.

They would be interested in seeing what data are recorded and the data content of the calculation. If necessary, any vehicle- or manufacturer-specific information could be lined out.

Best regards,



Volkswagen Group of America, Inc.



To: Jim Snyder/AA/USEPA/US@EPA[]

Cc: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

From: "Thomas, Suanne" **Sent:** Fri 3/26/2010 1:11:59 PM

Subject: VW: AECD Submission V6 diesel 3.0L Test Group follow-up

AECD MY11 V6TDI EPA DPF.pdf SCR driver message system MY11.pdf AECD Table B3 V6TDI update03h.pdf suanne.thomas@vw.com

Hi Jim:

This note is to follow-up on our phone conversation on 18Feb regarding the V6 diesel AECD documentation. Please see the attached files and let me know if you would like to discuss in more detail.

During our call, my understanding was that you would like to see the system description for SCR strategy when the urea is low. And also a description of the regeneration of the particulate trap. The PM-Trap-Strategies are active under all normal driving conditions and don't change due to specific trigger signals. Same for the SCR-Warning-System.

Also included is table "B3" with the list of sensors and actuators with default mode/consequence. For clarification, here is additional definition of terms used in these documents: "Reduced EGR" means in most of the cases "EGR shut off" --> See Table B3; "Limited Torque" means reduced fuel (nothing else); "Limp Home" means further reduction of fuel mass compared to "Limited Torque" (--> Extremely Limited Torque). SCR is not affected by "Limp Home".

Any comments are welcome.

Best regards, Suanne

From: Thomas, Suanne

Sent: Tuesday, February 16, 2010 1:05 PM

To: 'snyder.jim@epa.gov'

Subject: RE: VW: AECD Submission V6 diesel 3.0L Test Group

Hi Jim: just checking if you have any comments/feedback for us.

Take care, Suanne

From: Thomas, Suanne

Sent: Monday, February 01, 2010 2:11 PM

To: 'snyder.jim@epa.gov' Subject: VW: AECD Submission V6 diesel 3.0L Test Group
Dear Jim:
Attached is the information we just discussed regarding the AECD information for our V6 diesel.
We have used a new format for the information with the intent to make it more clear how the strategies work to assist in your review.
Please let me know if you would like an overview of the information via conference call. We are happy to do that, just let me know what time would be convenient for you.
Note: a timeslot in the morning would be preferable for us.
Sincerely,
Suanne Thomas
Engineering and Environmental Office
Volkswagen Group of America, Inc.

Phone: (248) 754-4206 Cell: (248) 797-4074 FAX: (248) 754-4207

3800 Hamlin Road Auburn Hills, MI 48326

E-Mail: suanne.thomas@vw.com

To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Hart, Robert (VWoA)"

Sent: Mon 3/29/2010 1:14:09 PM

Subject: RE: VW Group: Request for ORVR Approval

Thanks for the update.

Bob Hart

----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Monday, March 29, 2010 9:12 AM

To: Hart, Robert (VWoA)

Subject: RE: VW Group: Request for ORVR Approval

Hi, Bob.

I finished my review, another ORVR team member has reviewed it. I'm only waiting for one other person's review. He's out today but in tomorrow. He should be done tomorrow afternoon.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Hart, Robert (VWoA)" < Robert. Hart@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 03/29/2010 07:22 AM

Subject: RE: VW Group: Request for ORVR Approval

Hello Lynn,

Please give me the status of the ORVR approval request for Evap/Refueling family BADXR0155D4Q submitted 15-Mar-10.

Best regards,

Bob Hart

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Monday, March 15, 2010 1:42 PM

To: Hart, Robert (VWoA)

Subject: Fw: VW Group: Request for ORVR Approval

Hi, Bob.

Since I almost never get onto Verify, please e-mail the ORVR file to me. After we complete the review, I will fax the cover sheet back to you with "Accepted and Reviewed" written on it. Manufacturers usually scan this and put it into the documents files with the ORVR application.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 03/15/2010 01:38 PM -----

From: Jim Snyder/AA/USEPA/US

To: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>, Lynn Sohacki/AA/USEPA/US@EPA

Date: 03/15/2010 11:16 AM

Subject: Re: VW Group: Request for ORVR Approval

Yes, Lynn is still the person for reviewing ORVR systems.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division United States
Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

VW FOIA, EPA

06/20/2017

2017-FFP_001090

Date: 03/12/2010 02:32 PM

Subject: VW Group: Request for ORVR Approval

Hello Jim,

I have just submitted an ORVR system approval request to Verify, addressed to you, for MY 2011 Evap/Refueling Family BADXR0155D4Q. I attached a copy for your convenience. I'm not sure who I needed to address it to. Does Lynn Sohacki still review ORVR systems?

Also, the last I heard, we no longer have to send a copy to NHTSA. They only want to see it if the EPA has concerns. Is that still the case?

This new Evap/Refueling Family uses a Natural Vacuum Leak Detection system (NVLD) that is new technology for the Volkswagen Group. Otherwise, the system is similar to our other evap families.

Please alert whomever is responsible for ORVR review to this submission.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

(See attached file: CBI_BADXR0155D4Q_RFA_ORVR_R00.PDF)

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 3/30/2010 6:45:51 PM

Subject: Re: MY 2011 Lamborghini Information

Thanks Bob.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 03/30/2010 10:34 AM

Subject: MY 2011 Lamborghini Information

Hello Jim,

The attached file contains a short overview of the main technical features for the powertrain of 2011 Lamborghini project LB83x (it is the Murcielago successor but the model name is not yet determined).

Lamborghini does not have any new technology for 2011.

For 2012 this vehicle will be equipped as a Flex Fuel Vehicle (FFV), capable of running on E85 and gasoline.

Please let me know if this is sufficient or more detailed information is needed.

Please keep this information confidential

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

[attachment "Lamborghini 2011.pdf" deleted by Jim Snyder/AA/USEPA/US]

Draft list of questions for discussions with manufacturers 3-19-10

Roadload

Roadload coefficients derivation

Track tests conducted where?

What methodology is used – SAE, ISO procedures?

Describe how coastdown vehicles are prepared/inspected

At what point(s) in the development process are vehicles coasted down?

What is the target vehicle mileage for coastdown testing?

Roadload Modeling

Explain how your modeling process, if used, supplements actual road coastdown results How is the modeling validated?

Roadload Validation

Do you validate results from pre-production prototype vehicles using production vehicles?

If so, what do you observe statistically, if quantified?

If you observe offsets, what do you do?

What is the best metric for comparing roadload? RLHp at 50 mph? Integrated force or energy over standardized EPA drive cycles?

Do you QC check roadload coefficients for abnormal looking results? How?

Roadload Benchmarking

Do you conduct coastdown testing on competitor's vehicles?

If so, can you share any observations in a confidential manner?

Drive Trace Analysis

Describe your video driver's aid instrumentation – e.g. how it differs from what EPA uses

Describe how you instruct drivers - e.g. follow CFR language stating follow the trace without excessive throttle movement?

Do you use methods to audit/evaluate driving? If so, please describe them.

Do you use an energy analysis to relate summed energy (or horsepower) to fuel economy when comparing fuel economy results from your lab to EPA?

General Correlation

Do you participate in recurring inter-lab correlation programs?

Describe the program and how you use the results

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 4/5/2010 5:07:28 PM

Subject: Lamborghini

Bob, I have a couple more questions on the Lamborghini.

- Is there still a manual trans version to be submitted or just an automatic?

-The FEDV shows a City, HWFE and US06. Why the US06, are you using 5 cycle testing or Derived? If you are using are you going with 5 cycle FE, are you proposing to use SC03 / Cold CO data from the EDV?

Thanks.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Tue 4/6/2010 2:38:00 PM
	VW Group: New Test Waiver Requests Submitted - MY 2011 Audi
Hello Jim,	
	tted two new test waiver requests (1 EDV and 1 FEDV) for Audi test group BADXV04.23UH. The sted for exhaust and Evap.
I believe I in	ncluded enough information in the request for you to make a decision.
Best regard	s,
Bob	
Robert Hart	
Enginocring	r and Environmental Office
Engineering	g and Environmental Office
Volkswagen	n Group of America, Inc.
3800 Hamli	n Road
Auburn Hills	s, MI 48326
Dis /2.45	N) 754 4224
Phone: (248	
Fax: (248) 7	54-4207

1

E-mail: robert.hart@vw.com

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Hart, Robert (VWoA)" **Sent:** Tue 4/6/2010 3:15:08 PM

Subject: RE: Lamborghini

Hello Jim,

There is only the one transmission. It has a button to select a manual mode which allows you to use the paddles on the steering wheel to shift but there are no plans for a manual transmission with a clutch pedal. The transmission reverts back to automatic if the paddles are not used after a period of time.

We perform the tests to allow us to check both methods of FE calculation. Then we use whichever is better. We substitute the SC03 and Cold CO tests from the appropriate worst case (manual or automatic trans.) for the calculations.

Best regards,

Bob Hart

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Monday, April 05, 2010 1:07 PM

To: Hart, Robert (VWoA) Subject: Lamborghini

Bob, I have a couple more questions on the Lamborghini.

- Is there still a manual trans version to be submitted or just an automatic?
- -The FEDV shows a City, HWFE and US06. Why the US06, are you using 5 cycle testing or Derived? If you are using are you going with 5 cycle FE, are you proposing to use SC03 / Cold CO data from the EDV?

Thanks.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Thur 4/8/2010 3:11:56 PM VW Group: Supplemental Information Submitted
Hello Jim,	
	nitted the Supplemental Information to the Verify System for the Audi A8L (TG: 3UH) selected for Confirmatory Testing.
Best regard	s,
Bob	
Robert Har	t
Engineering	g and Environmental Office
Volkswager	n Group of America, Inc.
3800 Hamli	n Road
Auburn Hill	s, MI 48326
Phone: (24	3) 754-4224
Fax: (248) 7	754-4207
E-mail: rob	ert.hart@vw.com

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 4/8/2010 6:10:45 PM

Subject: Re: VW Group: Supplemental Information Submitted

Thanks.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 04/08/2010 11:12 AM

Subject: VW Group: Supplemental Information Submitted

Hello Jim,

I have submitted the Supplemental Information to the Verify System for the Audi A8L (TG: BADXV04.23UH) selected for Confirmatory Testing.

Best regards,

Bob

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

Subject: Test Process Question
Hello Jim,
Because it's been a while since Audi has had confirmatory tests that include an Evap test, they would like to verify the order of testing.
As we understand it, the process is as follows:
FTP
2-Day Evap test
No fuel change.
LA4 (as prep for US06)
US06
HWFET (as prep for HWFET)
HWFET
Is this correct?
Best regards,
Bob
Robert Hart
Engineering and Environmental Office

Jim Snyder/AA/USEPA/US@EPA[]

"Hart, Robert (VWoA)"

Tue 4/13/2010 1:58:55 PM

To:

From: Sent:

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

Phone: (248) 754-4224

Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 4/13/2010 9:20:45 PM **Subject:** Re: VW Group: Bugatti Carline

Yes, after reading and discussing with Tom and Dave, I am convinced the Veyron GT is not a different car line.

I'm still looking into it for other instances. Say, if the Audi A8L had a different FE label, I think it would need to be listed separately from the A8.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 04/12/2010 11:11 AM Subject: VW Group: Bugatti Carline

Hello Jim,

I need to finish this running change fairly soon. Have you come to any conclusion on our Bugatti carline discussion yet?

1

Best regards,

Bob Hart

VW FOIA, EPA

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Hart, Robert (VWoA)"

Sent: Wed 4/14/2010 12:09:39 PM

Subject: RE: VW Group: Bugatti Carline

Hi Jim,

The A8 and A8L are different carlines.

Bob Hart

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Tuesday, April 13, 2010 5:21 PM

To: Hart, Robert (VWoA)

Subject: Re: VW Group: Bugatti Carline

Yes, after reading and discussing with Tom and Dave, I am convinced the Veyron GT is not a different car line.

I'm still looking into it for other instances. Say, if the Audi A8L had a different FE label, I think it would need to be listed separately from the A8.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From:

"Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To:

Jim Snyder/AA/USEPA/US@EPA

Date:

04/12/2010 11:11 AM

Subject:

VW Group: Bugatti Carline

Hello Jim,

I need to finish this running change fairly soon. Have you come to any conclusion on our Bugatti carline discussion yet?

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Thur 4/15/2010 11:27:38 AM Question Answered -FW: Test Process Question
Hello Jim,	
I called Ben	Haynes and got the answer to the question below.
Best regard	s,
Bob Hart	
Sent: Tueso To: 'Snyder	Robert (VWoA) lay, April 13, 2010 9:59 AM .Jim@epamail.epa.gov' st Process Question
Hello Jim,	
	s been a while since Audi has had confirmatory tests that include an Evap test, they would like e order of testing.
As we unde	erstand it, the process is as follows:
FTP	
2-Day Evap	test
No fuel cha	nge.
LA4 (as pre	p for US06)
US06	

HWFET (as prep for HWFET)
HWFET
Is this correct?
Best regards,
Bob
Robert Hart
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4224
Fax: (248) 754-4207

E-mail: robert.hart@vw.com

Thur 4/15/2010 6:26:41 PM Sent: Subject: Supplemental Information Submitted for BADXT03.03UG Hello Jim, Vehicle ID: B3UG-TAQ cfg. 0 Test Group: BADXT03.03UG This is just a heads-up for the supplemental information submission for the Audi Q7 diesel confirmatory tests. The information has been successfully submitted. Best regards, **Bob Hart** Robert Hart **Engineering and Environmental Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4224 Fax: (248) 754-4207 E-mail: robert.hart@vw.com

To:

From:

Jim Snyder/AA/USEPA/US@EPA[]

"Hart, Robert (VWoA)"

To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Mon 4/19/2010 6:53:51 PM Test Waiver Request Submitted Under New Test Group
Hello Jim,	
Touareg un	ed the test waiver request for test vehicle EDV B3UG-TAQ cfg 1 as cfg 2 for the LTD3 diesel der the new test group BADXT03.02UG. This is the diesel we spoke about last week. You told . 0 has been selected for confirmatory testing. This vehicle as cfg. 1 was waived.
	2 are identical, except that cfg. 2 is now an EDV. I may not have needed to create cfg. 2 but way to delete a configuration once it is created.
	I this new test group to separate the LTD3 vehicle from the LTD4 test group because, as I the LDT4 SFTP tests did not meet LDT3 SFTP standards.
Call me if yo	ou have any questions.
Best regard	ls,
Bob Hart	
Robert Hart	t.
Engineering	g and Environmental Office
Volkswager	n Group of America, Inc.
3800 Hamli	n Road
Auburn Hill	s, MI 48326

Phone: (248) 754-4224

Fax: (248) 754-4207

E-mail: robert.hart@vw.com

VW FOIA, EPA

2

06/20/2017

To: "Kata, Leonard" [Leonard.Kata@vw.com]

Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; N=Jim

Snyder/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Linc Wehrly/OU=AA/O=USEPA/C=US

Sent: Thur 4/22/2010 8:46:40 PM

Subject: RE: Road Load Determination Discussion

mailto:Wehrly.Linc@epamail.epa.gov

Len,

Let's pick June 2 at 9:30 am. Let me know if this will be OK.

Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: "Kata, Leonard" < Leonard. Kata@vw.com>

To: Linc Wehrly/AA/USEPA/US@EPA

Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>, Jim Snyder/AA/USEPA/US@EPA

Date: 04/21/2010 05:52 PM

Subject: RE: Road Load Determination Discussion

Hi Linc:

After discussion with our colleagues, we propose the following meeting dates and times:

Wednesday, June 2, 2010 at 09:30, or Wednesday, June 9, 2010 at 09:30

I expect that two people will attend from Germany. With one or two of us from the local office, the total would be three or four people.

Please let me know if one of these dates works.

Best regards,

Len

Leonard W. Kata Manager, Emission Regulations and Certification Engineering and Environmental Office Volkswagen Group of America, Inc.

Phone: (248) 754-4204 Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Wehrly.Linc@epamail.epa.gov [mailto:Wehrly.Linc@epamail.epa.gov]

Sent: Friday, April 16, 2010 12:42 PM

To: Kata, Leonard

Cc: Kohnen, Christoph (VWGoA); Snyder.Jim@epamail.epa.gov

Subject: RE: Road Load Determination Discussion

Len,

Thanks for the reply. June would be fine. Why don't you proposes a date and time.

Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: "Kata, Leonard" < Leonard. Kata@vw.com>

To: Linc Wehrly/AA/USEPA/US@EPA

Cc: Jim Snyder/AA/USEPA/US@EPA, "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>

Date: 04/16/2010 11:23 AM

Subject: RE: Road Load Determination Discussion

Hi Linc:

Regarding the meeting to discuss road load determination; I have forwarded the request to my colleagues overseas.

My understanding from speaking with Jim Snyder, is that EPA would prefer to have participation on the part of those directly involved in the road load determination process. In any case, there are currently a number of commitments for previously-scheduled meetings and holidays that take place between now and the end of May 2010. Therefore, we propose to meet in June 2010 (with the exception of the week of June 14, 2010).

Please let me know if this will work for you.

Best regards,

Leonard W. Kata Manager, Emission Regulations and Certification Engineering and Environmental Office Volkswagen Group of America, Inc.

Phone: (248) 754-4204 Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Wehrly.Linc@epamail.epa.gov [mailto:Wehrly.Linc@epamail.epa.gov]

Sent: Friday, April 02, 2010 2:46 PM

To: Kata, Leonard

Subject: Road Load Determination Discussion

Len,

As we begin the process of implementing the new light-duty GHG regulations, we have been reviewing our current compliance practices to see where we need to make improvements. One of the areas that stands out is coast down testing and road load determination. We would like to meet with VW to discuss your current and past road load determination practices, so that we can get a better understand of your process. I'm attaching a list of questions that we would like to discuss. I know this can be a broad subject and we may not be able to address everything in a single meeting, so we may need to schedule some follow-up meetings if necessary. We were thinking the initial meeting would be about two hours. We were hoping to schedule this meeting sometime in the next several weeks.

Please let me know when would be a good time for you to meet. Let me know if you have any questions.

Thanks, Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

To: "Kata, Leonard" [Leonard.Kata@vw.com]

Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; N=Jim

Snyder/OU=AA/O=USEPA/C=US@EPA[]

Bcc: []

From: CN=Linc Wehrly/OU=AA/O=USEPA/C=US

Sent: Thur 4/22/2010 8:46:40 PM

Subject: RE: Road Load Determination Discussion

mailto:Wehrly.Linc@epamail.epa.gov

Len,

Let's pick June 2 at 9:30 am. Let me know if this will be OK.

Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: "Kata, Leonard" < Leonard. Kata@vw.com>

To: Linc Wehrly/AA/USEPA/US@EPA

Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>, Jim Snyder/AA/USEPA/US@EPA

Date: 04/21/2010 05:52 PM

Subject: RE: Road Load Determination Discussion

Hi Linc:

After discussion with our colleagues, we propose the following meeting dates and times:

Wednesday, June 2, 2010 at 09:30, or Wednesday, June 9, 2010 at 09:30

I expect that two people will attend from Germany. With one or two of us from the local office, the total would be three or four people.

Please let me know if one of these dates works.

Best regards,

Len

Leonard W. Kata Manager, Emission Regulations and Certification Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204 Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Wehrly.Linc@epamail.epa.gov [mailto:Wehrly.Linc@epamail.epa.gov]

Sent: Friday, April 16, 2010 12:42 PM

To: Kata, Leonard

Cc: Kohnen, Christoph (VWGoA); Snyder.Jim@epamail.epa.gov

Subject: RE: Road Load Determination Discussion

Len,

Thanks for the reply. June would be fine. Why don't you proposes a date and time.

Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

From: "Kata, Leonard" < Leonard.Kata@vw.com>

To: Linc Wehrly/AA/USEPA/US@EPA

Cc: Jim Snyder/AA/USEPA/US@EPA, "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>

Date: 04/16/2010 11:23 AM

Subject: RE: Road Load Determination Discussion

Hi Linc:

Regarding the meeting to discuss road load determination; I have forwarded the request to my colleagues overseas.

My understanding from speaking with Jim Snyder, is that EPA would prefer to have participation on the part of those directly involved in the road load determination process. In any case, there are currently a number of commitments for previously-scheduled meetings and holidays that take place between now and the end of May 2010. Therefore, we propose to meet in June 2010 (with the exception of the week of June 14, 2010).

Please let me know if this will work for you.

Best regards,

Len

Leonard W. Kata
Manager, Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.

Phone: (248) 754-4204 Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Wehrly.Linc@epamail.epa.gov [mailto:Wehrly.Linc@epamail.epa.gov]

Sent: Friday, April 02, 2010 2:46 PM

To: Kata, Leonard

Subject: Road Load Determination Discussion

Len,

As we begin the process of implementing the new light-duty GHG regulations, we have been reviewing our current compliance practices to see where we need to make improvements. One of the areas that stands out is coast down testing and road load determination. We would like to meet with VW to discuss your current and past road load determination practices, so that we can get a better understand of your process. I'm attaching a list of questions that we would like to discuss. I know this can be a broad subject and we may not be able to address everything in a single meeting, so we may need to schedule some follow-up meetings if necessary. We were thinking the initial meeting would be about two hours. We were hoping to schedule this meeting sometime in the next several weeks.

Please let me know when would be a good time for you to meet. Let me know if you have any questions.

Thanks, Linc

Linc Wehrly
Manager, Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4286
wehrly.linc@epa.gov

To: Jim Snyder/AA/USEPA/US@EPA[]

Cc: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

From: "Thomas, Suanne" **Sent:** Fri 4/23/2010 9:37:17 PM

Subject: RE: AECD Submission V6 diesel 3.0L Test Group follow-up

suanne.thomas@vw.com

Hi Jim: This is just to follow-up my phone message today, I would like confirm that our discussions on the AECDs for this concept for MY2011 are completed. Of course we are open to provide additional information to you however I would like to be sure that we are ready to process our MY2011 certification paperwork.

Thank you for your time spent in your review and we are willing to continue to improve the information format for future model year submissions. Any suggestions are welcome.

Take care, Suanne

From: Thomas, Suanne

Sent: Friday, March 26, 2010 9:12 AM

To: 'snyder.jim@epa.gov' Cc: Hart, Robert (VWoA)

Subject: VW: AECD Submission V6 diesel 3.0L Test Group follow-up

Hi Jim:

This note is to follow-up on our phone conversation on 18Feb regarding the V6 diesel AECD documentation. Please see the attached files and let me know if you would like to discuss in more detail.

During our call, my understanding was that you would like to see the system description for SCR strategy when the urea is low. And also a description of the regeneration of the particulate trap. The PM-Trap-Strategies are active under all normal driving conditions and don't change due to specific trigger signals. Same for the SCR-Warning-System.

Also included is table "B3" with the list of sensors and actuators with default mode/consequence. For clarification, here is additional definition of terms used in these documents: "Reduced EGR" means in most of the cases "EGR shut off" --> See Table B3; "Limited Torque" means reduced fuel (nothing else); "Limp Home" means further reduction of fuel mass compared to "Limited Torque" (--> Extremely Limited Torque). SCR is not affected by "Limp Home".

Any comments are welcome.
Best regards, Suanne
From: Thomas, Suanne Sent: Tuesday, February 16, 2010 1:05 PM To: 'snyder.jim@epa.gov' Subject: RE: VW: AECD Submission V6 diesel 3.0L Test Group
Hi Jim: just checking if you have any comments/feedback for us.
Take care, Suanne
From: Thomas, Suanne Sent: Monday, February 01, 2010 2:11 PM To: 'snyder.jim@epa.gov' Subject: VW: AECD Submission V6 diesel 3.0L Test Group
Dear Jim:
Attached is the information we just discussed regarding the AECD information for our V6 diesel.
We have used a new format for the information with the intent to make it more clear how the strategies work to assist in your review.
Please let me know if you would like an overview of the information via conference call. We are happy to do that just let me know what time would be convenient for you.
Note: a timeslot in the morning would be preferable for us.
Sincerely,
Suanne Thomas
Engineering and Environmental Office
Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326
2

Phone: (248) 754-4206 Cell: (248) 797-4074 FAX: (248) 754-4207

E-Mail: suanne.thomas@vw.com

To: Lynn Sohacki/AA/USEPA/US@EPA[]

Cc: "Reineke, Dennis" [Dennis.Reineke@vw.com]

From: "Mathis, KeeKee"

Sent: Mon 4/26/2010 1:36:08 PM **Subject:** FW: PO Number 4500295427

PO Number 4500295427.pdf

Attached you will find a copy of the PO# that was requested. Thanks.

From: cypress2@vw.com [mailto:cypress2@vw.com]

Sent: Friday, April 23, 2010 4:32 PM

To: Mathis, KeeKee

Subject: PO Number 4500295427

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-4 EST)

ABURN HILLSM 48326 U.S.A. Please include PO number and supplier number on invoice.

Supplier: 1000807784

Please address all invoices to: Volkswagen Group of America, Inc. Attn:Dennis Reineke 3800 Hamlin Road

Auburn Hills MI 48326

ENVIRONMENTAL PROTECTION AGENCY MOTOR VEHICLE/ENGINE PROTECTION P.O. BOX 979032
SAINT LOUIS MO 63197-9000

Payment: Payable immediately Due net

Delive FOB SHIPPING POINT

Item	Quantity Description	Price/Unit	Tota I
00001	9 - TG Volkswagen		
	313,641.000 Value Unit	1.00	313,641.00
ITE	M TEXT:		
-EF	PA Emisssion Certification		
- 5	AF# 12180		
00002	12 - TGAudi		
	418,188.000 Value Uhit	1.00	418,188.00
00003	2 - TG Bentley		
	69,698.000 Value Uhit	1.00	69,698.00
00004	1 TG Lamborghini		•
	34,849.000 Value Unit	1.00	34,849.00
	Total net value ex-	cluding tax USD	836,376.00
Note: Purcha	ases are presumed to be taxable unless-specif	ically identified as Tax Exempt.	

This Purchase Order is made only upon and subject to all of the standard terms and conditions found on

http://www.wwgroupsupply.com.

Supplier Acknowledgement: Complete & Return Promptly

The above numbered order is acknowledged and accepted subject to the terms and conditions thereon.

Shipment Date

This is an electronically generated Archase Order valid without any signature.

Purchase Order valid without any signature.

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2010

VW FOIA, EPA 06/20/2017 2017-FFP_001120

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U.S.A. and supplier number on invoice.

Supplier: 1000807784

ENVIRONMENTAL PROTECTION AGENCY MOTOR VEHICLE/ENGINE PROGRAM P.O. BOX 979032 SAINT LOUISMO 63197-9000

Please address all invoices to: Volkswagen Group of America, Inc. Attn:Dennis Reineke 3800 Hamlin Road Aubum Hills MI 48326

PRICING TYPES:

Please reference supplier document refer to the U.S. Environmental Protection Agency and email) d 4/23/2010 outlining scope of service and all related costs.

Globe #Will enter at later date / Urgent PO# per Stefan 4/23/2010.

The above mentioned price must not be exceeded.

For technical questions, please contact the above mentioned requestor (1-248-754-4215).

The current version of General Terms and Conditions of Purchase can be found on http://www.vwgroupsupply.com; using the following path:

Worldwide presence, WWGroup of America, Terms and Conditions, Non-Production Terms and Conditions

Please note:

Invoices must contain the Purchase Order number and description of Goods and/or Services. Except as otherwise stated in a Purchase Order, WigoA shall pay the Charges set forth in non-disputed invoices based on a Net 60 day payment term. In the event of any delay in receiving an invoice, or an or omissions in any invoice, WigoA may withhold payment without losing its rights to applicable cash discounts. Except as otherwise stated in a Purchase Order, all payments will be in U.S. Dollars.

Supplier shall invoice sales tax in state/province of destination on taxable items. If tax is not specification in taxable items. If tax is not specification on taxable items.

Pricing is subject to change subject to future negotiations.

To assure proper payment, supplier must invoice for goods and/or services in the same format as shown on this Purchase Order.

ACCOUNTING INFORMATION: CC- 61000 GL-8190040 840080190041

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VW FOIA, EPA 06/20/2017 2017-FFP_001121

ABLIN HILLSM 48326 U.S.A.

Supplier: 1000807784

ENVIRONMENTAL PROTECTION AGENCY MOTOR VEHICLE/ENGINE PROGRAM P.O. BOX 979032 SAINT LOUISMO 63197-9000

Please include PO number and supplier number on invoice.

Please address all invoices to: Volkswagen Group of America, Inc. Attn:Dennis Reineke 3800 Hamlin Road Auburn Hills MI 48326

86001479326 86000 1479394

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To:	Willem VandenBroek/A			
Cc:	Jim Snyder/AA/USEPA	VUS@EPA	Ex. 7	
	Ex. 7	i		
From:	Ex. 7	<u> </u>		
Sent:	Mon 4/26/2010 1:43:02	2 PM		
Subject:	2011 EPA Certification	Fees		
2011 EPA	Cert Fees Bugatti.pdf			
Audiciv T	Ca 2011 to Alay adf			

Hello Bill;

I thought it would better enable you to keep track of the Volkswagen Group (Volkswagen, Audi, Bentley, Lamborghini, Bugatti) certification fees paid, since our payments are made electronically and the fee filing forms are mailed to St. Louis.

I am attaching the first 2011 Volkswagen Group Certification Fee filing form for the Bugatti test group. This fee was paid or transferred to the EPA account last Friday, April 23rd. This fee filing form was mailed to St. Louis on the same day.

Additionally, six Audi test group fee filing forms are attached in a single pdf file for which the payment will be made this Friday, April 30th. I will mail these fee filing forms to St. Louis today.

If you rather not be notified with these email notices, or have a comment please feel free to contact me directly.

Best regards,

Ex. 7

VOLKSWAGEN GROUP OF AMERICA, INC.

⊕EPA	MOTOR VEHICLE AND ENGINE COM ON-HIGHWAY FEE FILIN	
FOR CERTIFICATION APPLICATIONS RECEIVED IN CALENDAR YEAR 2010		
Manufacturer	Name VOLKSWAGEN GROUP OF America, Inc.	
Address	3800 Hamlin Road	NAME AND ADDRESS OF THE STATE O
City/State/Zi	p Code/Country Auburn Hills, MI 48326	
	On-Highway Certification Request	
X LDV/LDT	/MDPV/HDV (Chassis cert) FEDERAL (\$34,849)	☐ HDV EVAP-ONLY (\$511)
_ LDV/LDT	/MDPV/HDV (Chassis cert) CAL-ONLY (\$17,591)	☐ HDE CALIF-ONLY (\$511)
HDE (En	gine Dyno cert) FEDERAL (\$35,967)	☐ MOTORCYCLE (\$1,210)
		LD/MDPV/HDV ICI (\$47,928)
EPA standard e	ngine family or test group or e family name:	B B G T V 0 8 . 0 V 1 6
Amount paid (U	.S. Funds Only):	\$ 34,849.00
Enter the chec	k number, or the statement "EFT/WIRE" or "EFT	?/ACH":
Aggregate retain	lculation (minimum initial payment \$750): To il sales price of the vehicles/engines: \$	x 1% = \$
Company Repres	entative: RICHARD E. THOMAS	Signature:
Title: Emission	Cert Strategist Phone/Fax: 248 754 4213	/ 248 754 4207 Date: 4 /7 / 2010
E-mail Address		
Submission of payments and forms: (1) Online: Forms may be found and submitted with or without payments online at www.Pay.gov . (2) Send checks and this form to:		
Environmental Protection Agency Motor Vehicle and Engine Compliance Program P.O. Box 979032 St. Louis, MO 63197-9000		
(3) Transmit offline EFT/Wire payments to the New York Federal Reserve Bank. (See Instructions, p.2) (4) Transmit offline EFT/ACH payments to the Federal Reserve Bank of Cleveland. (Instructions, p.2) (5) Forms not submitted under (1) and (2) above can be sent as email attachments to Fees@epa.gov. Forms and payments sent in ways other than the above may be delayed or ineffective. See the Instructions for sending checks and forms by private mail service (e.g., Federal Express).		
on EPA's need for the including through the	and recordkeeping burden for this collection of information is estains information, the accuracy of the provided burden estimate, and a use of automated collection techniques, to the Director, Collection sylvania Ave., N.W., Washington, D.C. 20460. Include the OM 10-29 to this address.	any suggested methods for minimizing respondent burden, Strategies Division, U.S. Environmental Protection Agency
		This form expires: 1/1/2011

VW FOIA, EPA 06/20/2017 2017-FFP_001124

SEPA MOTOR VEHICLE AND ENGINE COMPLIANCE PROGRAM ON-HIGHWAY FEE FILING FORM	
FOR CERTIFICATION APPLICATIONS RECEIVED IN CALENDAR YEAR 2010	
Manufacturer Name VOLKSWAGEN GROUP of AMERICA, Inc.	***************************************
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City/State/Zip Code/Country AUBURN HILLS, MI 48326	
On-Highway Certification Request Type (check one)	
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LDV/LDT/MDFV/HDV (Chassis cert) CAL-ONLY (\$17,591) HDE CALIF-ONLY (\$511)	
HDE (Engine Dyno cert) FEDERAL (\$35,967) MOTORCYCLE (\$1,210)	
	
EPA standard engine family or test group or HDV Evaporative family name:	U G
Amount paid (U.S. Funds Only): \$ 34,849.00	
Enter the check number, or the statement "EFT/WIRE" or "EFT/ACH":	
Aggregate retail sales price of the vehicles/engines: \$\ x 1\% = \\$\ Check box if an Independent Commercial Importer: \(\text{List the VIN of imported vehicles/engines} \)	below:
Company Representative: RICHARD E. THOMAS Signature:	
Title: Emission Cert Strategist Phone/Fax: 248 754 4213 / 248 754 4207 Date: 4 /23 / 201	<u>o</u>
E-mail Address: Richard.Thomas@ VW.com Submission of payments and forms: (1) Online: Forms may be found and submitted with or without payments online at www.Pay.gov . (2) Send checks and this form to:	
Environmental Protection Agency Motor Vehicle and Engine Compliance Program P.O. Box 979032 St. Louis, MO 63197-9000	
(3) Transmit offline EFT/Wire payments to the New York Federal Reserve Bank. (See Instructions (4) Transmit offline EFT/ACH payments to the Federal Reserve Bank of Cleveland. (Instructions (5) Forms not submitted under (1) and (2) above can be sent as email attachments to Fees@epa. Forms and payments sent in ways other than the above may be delayed or ineffective. See the Instructions for sending checks and forms by private mail service (e.g., Federal Express).	s, p.2)
The public reporting and recordkeeping burden for this collection of information is estimated to average 18 minutes per response. Send com on EPA's need for this information, the accuracy of the provided burden estimate, and any suggested methods for minimizing respondent by including through the use of automated collection techniques, to the Director, Collection Strategies Division, U.S. Environmental Protection A (2822T), 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not set completed Form 3520-29 to this address.	urden, gency
This form expires: 1/1/2011	

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HDE (Engine Dyno cert) FEDER	AL (\$35,967)	☐ MOTORCYCLE (\$1,210)
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Amount paid (U.S. Funds Only):		\$ 34,849.00
Enter the check number, or the stat	ement "EFT/WIRE" or "EF	T/ACH": EFT/ACH
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Submission of payments and forms: (1) Online: Forms may be found and (2) Send checks and this form to:		out payments online at www.Pay.gov.
·	Environmental Protection Wehicle and Engine Comp P.O. Box 97903 St. Louis, MO 63197	pliance Program 2
(4) Transmit offline EFT/ACH paymen	its to the <u>Federal Rese</u> and (2) above can be se her than the above may	
on EPA's need for this information, the accuracy of including through the use of automated collection tec	the provided burden estimate, and hniques, to the Director, Collection	timated to average 18 minutes per response. Send comments d any suggested methods for minimizing respondent burden, n Strategies Division, U.S. Environmental Protection Agency 1B control number in any correspondence. Do not send the

FOR CERTIFICATION APPLICATIONS RECEIVED IN CALENDAR YEAR 2010 Manufacturer Name VOLKSWAGEN OROUP of AMERICA, Inc. 3800 HAMLIN ROAD City/State/Zip Code/Country AUBURN HILLS, MI 48326 On Highway Certification Request Type (check one) DID/IDT/MDFV/BDV (Chaesis cert) FEDERAL (834,491) HOW EVAR-ONLY (8511) DID/IDT/MDFV/BDV (Chaesis cert) CAL-ONLY (817,591) HOE CALIF-ONLY (8511) DID/IDT/MDFV/BDV (Chaesis cert) CAL-ONLY (817,591) HOP CALIF-ONLY (817,228) EPA standard engine Family or test group or ROY EVAPORATION (RIVER) EPA standard engine Family or test group or ROY EVAPORATION (RIVER) EPA standard engine Family or test group or ROY EVAPORATION (RIVER) ENGINEER STANDARD (RIVER) Reduced Fee Section (80 CFR \$1027.120) Reduced fee calculation (sinimum initial payment \$1550): Total number of vehicles/engines covered: Reduced fee calculation (sinimum initial payment \$1550): Total number of vehicles/engines covered: Reduced fee calculation (sinimum initial payment \$1550): Total number of vehicles/engines covered: Reduced fee calculation (sinimum initial payment \$1550): Total number of vehicles/engines covered: Reduced fee calculation (sinimum initial payment \$1550): Total number of vehicles/engines covered: Reduced fee calculation (sinimum initial payment \$1550): Total number of vehicles/engines covered: Reduced fee calculation (sinimum initial payment \$1550): Total number of vehicles/engines covered: Reduced fee calculation (sinimum initial payment \$1550): Total number of vehicles/engines covered: Reduced fee calculation (sinimum initial payment \$1550): Total number of vehicles/engines covered: Reduced fee calculation (sinimum initial payment \$150): Total number of vehicles/engines covered: Red	SEPA	MOTOR VEHICLE AND ENGINE COMPI	
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Company Representative: RICHARD E. THOMAS Company Representative: RICHARD E. THOMAS Title: Emission Cert Strategist Phone/Fax: 248 754 4207 Phone/Fax: 258 Phone/Fax: 25			
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HDE (Engine Dyno cert) FEDERAL (\$35,967)	☑ LDV/LDT/	MDFV/HDV (Chassis cert) FEDERAL (\$34,849)	☐ HDV EVAP-ONLY (\$511)
EPA standard engine family or test group or	☐ LDV/LDT/	MDPV/HDV (Chassis cert) CAL-ONLY (\$17,591)	HDE CALIF-ONLY (\$511)
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Enter the check number, or the statement "EFT/WIRE" or "EFT/ACH": Reduced Fee Section (40 CFR 51027.120) Reduced fee calculation (minimum initial payment \$750): Total number of vehicles/engines covexed: Aggregate retail sales price of the vehicles/engines: \$ x 1% = \$ Check box if an Independent Commercial Importer: List the VIN of imported vehicles/engines below: Company Representative: RICHARD E. THOMAS Signature: Landau Vehicles/engines below: Company Representative: RICHARD E. THOMAS Signature: Landau Vehicles/engines below: Company Representative: RICHARD E. THOMAS Signature: Landau Vehicles/engines below: Company Representative: RICHARD E. THOMAS Signature: Landau Vehicles/engines below: Company Representative: RICHARD E. THOMAS Signature: Landau Vehicles/engines below: Company Representative: RICHARD E. THOMAS Signature: Landau Vehicles/engines below: Company Representative: RICHARD E. THOMAS Signature: Landau Vehicles/engines below: Company Representative: RICHARD E. THOMAS Signature: Landau Vehicles/engines below: Company Representative: RICHARD E. THOMAS Signature: Landau Vehicles/engines below: Company Representative: RICHARD E. THOMAS Signature: Landau Vehicles/engines below: Company Representative: RICHARD E. THOMAS Signature: Landau Vehicles/engines below: Company Representative: RICHARD E. THOMAS Signature: Landau Vehicles/engines below: Company Representative: RICHARD E. THOMAS Signature: Landau Vehicles/engines below: E-mail Address: Richard. Thomas@ WW.com Motor Vehicles and Replace Compliance Program P.O. Box 979032 St. Louis, Mo 53197-9000 Agreed Tehns Landau Vehicles La			
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E-mail Address: Richard.Thomas@ VW.com Submission of payments and forms: (1) Online: Forms may be found and submitted with or without payments online at www.Pay.gov. (2) Send checks and this form to: Environmental Protection Agency Motor Vehicle and Engine Compliance Program P.O. Box 979032 St. Louis, MO 63197-9000 (3) Transmit offline EFT/Wire payments to the New York Federal Reserve Bank. (See Instructions, p.2) (4) Transmit offline EFT/ACH payments to the Federal Reserve Bank of Cleveland. (Instructions, p.2) (5) Forms not submitted under (1) and (2) above can be sent as email attachments to Fees@epa.gov. Forms and payments sent in ways other than the above may be delayed or ineffective. See the Instructions for sending checks and forms by private mail service (e.g., Federal Express). The public reporting and recordkeeping burden for this collection of information is estimated to average 18 minutes per response. Send comments on EPA's need for this information, the accuracy of the provided burden estimate, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques, to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed Form 3520-29 to this address.			
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This form expires: 1/1/2011	on EPA's need for thi including through the (2822T), 1200 Penns	s information, the accuracy of the provided burden estimate, and ar use of automated collection techniques, to the Director, Collection S ylvania Ave., N.W., Washington, D.C. 20460. Include the OMB	ny suggested methods for minimizing respondent burden, trategies Division, U.S. Environmental Protection Agency
			This form expires: 1/1/2011

SEPA	MOTOR VEHICLE AND ENGINE COM ON-HIGHWAY FEE FILIN		
	FOR CERTIFICATION APPLICATIONS RECEIV		
Manufacturer N	Name VOLKSWAGEN GROUP of AMERICA, Inc.		
Address 3800 HAMLIN ROAD			
City/State/Zip	Code/Country AUBURN HILLS, MI 48326		
	On-Highway Certification Request	Type (check one)	
	MDPV/HDV (Chassis cert) FEDERAL (\$34,849)	☐ HDV EVAP-ONLY (\$511)	
_ LDV/LDT/	MDPV/HDV (Chassis cert) CAL-ONLY (\$17,591)	☐ HDE CALIF-ONLY (\$511)	
HDE (Eng	ine Dyno cert) FEDERAL (\$35,967)	☐ MOTORCYCLE (\$1,210)	
		☐ LD/MDPV/HDV ICI (\$47,928)	
EPA standard en	gine family or test group or . family name:	B A D X V 0 5 . 2 3 8 5	
Amount paid (U.	S. Funds Only):	\$ 34,849.00	
Enter the check	number, or the statement "EFT/WIRE" or "EFT	:/ACH": EFT/ACH	
Aggregate retail	Reduced Fee Section (40 CF) culation (minimum initial payment \$750): To 1 sales price of the vehicles/engines: \$ Independent Commercial Importer: [] List t	he VIN of imported vehicles/engines below:	
		249.754.4207	
Title: Emission Cert Strategist Phone/Fax: 248 754 4213 Phone/Fax: 248 754 4213 Phone/Fax: 248 754 4213 Phone/Fax: 248 754 4207 Date: 4 /23 / 2010 E-mail Address: Richard.Thomas@ VW.com Submission of payments and forms: Online: Forms may be found and submitted with or without payments online at www.Pay.gov. Send checks and this form to:			
Environmental Protection Agency Motor Vehicle and Engine Compliance Program P.O. Box 979032 St. Louis, MO 63197-9000			
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VW FOIA, EPA 06/20/2017 2017-FFP_001128

U.S. ENVIRONMENTAL PROTECTION AGENCY MOTOR VEHICLE AND ENGINE COMPLIANCE PROGRAM

FOR CERTIFICATION APPLICATIONS RECEIVED	
Manufacturer Name VOLKSWAGEN GROUP of AMERICA, Inc.	
Address 3800 HAMLIN ROAD	
City/State/Zip Code/Country AUBURN HILLS, MI 48326	
On-Highway Certification Request	Type (check one)
X LDV/LDT/MDPV/HDV (Chassis cert) FEDERAL (\$34,849)	HDV EVAP-ONLY (\$511)
LDV/LDT/MDPV/HDV (Chassis cert) CAL-ONLY (\$17,591)	HDE CALIF-ONLY (\$511)
HDE (Engine Dyno cert) FEDERAL (\$35,967)	MOTORCYCLE (\$1,210)
	LD/MDPV/HDV ICI (\$47,928)
EPA standard engine family or test group or HDV Evaporative family name:	B A D X J 0 3 . 2 3 U C
Amount paid (U.S. Funds Only):	\$ 34,849.00
Enter the check number, or the statement "EFT/WIRE" or "EFT	P/ACH": EFT/ACH
Aggregate retail sales price of the vehicles/engines: \$Check box if an Independent Commercial Importer: List to	
Company Representative: RICHARD E. THOMAS s	Kell Kellyn
Title: Emission Cert Strategist Phone/Fax: 248 754 4213	/ 248 754 4207 Date: 4 /26/2010
E-mail Address: Richard.Thomas@ VW.com Submission of payments and forms: (1) Online: Forms may be found and submitted with or without the company of the co	
Environmental Protection Motor Vehicle and Engine Comp. P.O. Box 979032 St. Louis, MO 63197-	liance Program
(3) Transmit offline EFT/Wire payments to the New York Fed (4) Transmit offline EFT/ACH payments to the Federal Reser (5) Forms not submitted under (1) and (2) above can be sen Forms and payments sent in ways other than the above may be Instructions for sending checks and forms by private mail	rve Bank of Cleveland. (Instructions, p.2) at as email attachments to Fees@epa.gov. be delayed or ineffective. See the
The public reporting and recordkeeping burden for this collection of information is esti on EPA's need for this information, the accuracy of the provided burden estimate, and including through the use of automated collection techniques, to the Director, Collection (2822T), 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460. Include the OME completed Form 3520-29 to this address.	any suggested methods for minimizing respondent burden, Strategies Division, U.S. Environmental Protection Agency
	This form expires: 1/1/2011

VW FOIA, EPA 06/20/2017 2017-FFP_001129

U.S. ENVIRONMENTAL PROTECTION AGENCY MOTOR VEHICLE AND ENGINE COMPLIANCE PROGRAM ON-HIGHWAY FEE FILING FORM

SEPA ON-HIGHWAY FEE FILING FORM			
FOR CERTIFICATION APPLICATIONS RECEIVED IN CALENDAR YEAR	2010		
Manufacturer Name VOLKSWAGEN GROUP of AMERICA, Inc.			
Address 3800 HAMLIN ROAD			
City/State/Zip Code/Country AUBURN HILLS, MI 48326			
On-Highway Certification Request Type (check one)			
X LDV/LDT/MDPV/HDV (Chassis cert) FEDERAL (\$34,849) HDV EVAP-ON	LY (\$511)		
LDV/LDT/MDPV/HDV (Chassis cert) CAL-ONLY (\$17,591) HDE CALIF-ONLY (\$511)			
HDE (Engine Dyno cert) FEDERAL (\$35,967)	(\$1,210)		
LD/MDPV/HDV	ICI (\$47,928)		
EPA standard engine family or test group or HDV Evaporative family name:	3 . 0 3 U F		
Amount paid (U.S. Funds Only):	34,849.00		
Enter the check number, or the statement "EFT/WIRE" or "EFT/ACH":	EFT/ACH		
Aggregate retail sales price of the vehicles/engines: \$ x 1% . Check box if an Independent Commercial Importer: [] List the VIN of imported ve	= \$_ehicles/engines below:		
DIGUADO F. TUQUAD	05/12		
Company Representative: RICHARD E. THOMAS Signature: Fell as	Collina		
Title: Emission Cert Strategist Phone/Fax: 248 754 4213 / 248 754 4207	Date: 4 /26 / 2010		
E-mail Address: Richard.Thomas@ VW.com Submission of payments and forms: (1) Online: Forms may be found and submitted with or without payments online at www.pay.gov. (2) Send checks and this form to:			
Environmental Protection Agency Motor Vehicle and Engine Compliance Program P.O. Box 979032 St. Louis, MO 63197-9000			
(3) Transmit offline EFT/Wire payments to the New York Federal Reserve Bank. (See Instructions, p.2) (4) Transmit offline EFT/ACH payments to the Federal Reserve Bank of Cleveland. (Instructions, p.2) (5) Forms not submitted under (1) and (2) above can be sent as email attachments to Fees@epa.gov. Forms and payments sent in ways other than the above may be delayed or ineffective. See the Instructions for sending checks and forms by private mail service (e.g., Federal Express).			
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This form expires:	1/1/2011		

Page 2

Instructions

NOTE: This form applies to complete certification applications that are received in Calendar Year (CY) 2010. Fee amounts due are subject to change every year. Use of the form for the wrong calendar year can cause incorrect payments and delays. Get the form for the calendar year of your application submission at www.epa.gov/otag/fees.htm or www.Pay.gov. Forms and payments may be submitted online at www.Pay.gov.

Manufacturer Name and Address

List the applicant's corporate name and corporate address as it will appear on the Certificate of Conformity.

Certification Request Type

Check the box that specifies the certification request type. If you are paying a reduced fee, still mark the appropriate certification request type.

EPA Standard Engine Family or Test Group or HDV Evaporative Family Name

Enter the appropriate EPA standardized engine family or test group name as it will appear on the Certificate of Conformity. Forms and payments for Modification and Test vehicles under 40 CFR 85.1509 must list the engine family for the currently valid Certificate of Conformity under which the vehicles are being imported.

Amount Paid

Enter the appropriate fee amount for the designated certification request type. The full fee, payable in U.S. dollars, along with a properly completed fee filing form, must be received before certification review can begin. All banking fees are the responsibility of the manufacturer. The reduced fee amount (if applicable) is also entered in this box.

Check Number, EFT/ACH, or EFT/WIRE (for offline payments)

The check number is mandatory for check, money order, bank draft, or certified check; or enter the letters "EFT/WIRE" or "EFT/ACH" if sending an electronic funds transfer. Indicate the standard engine family or test group name on the check. Make checks payable to "U.S. Environmental Protection Agency". Indicate in the EFT message field the information:

<u>For Wire</u>: RDFI: Federal Reserve Bank; Location Code (Same as EPA Account Number): <u>68-01-0099</u>; "<u>EPA MVECP Fee</u>"; <u>ABA number</u>: <u>021030004</u>. (ABA number is same as Swift Code or Routing Number for participating banks. For further information, email Fees@epa.gov). Note: the wire detail corresponding to ABA 021030004 is "TREAS NYC"; this is the same as the Federal Reserve Bank.

<u>For ACH</u>: RDFI: Federal Reserve Bank, Routing Transit number: 051036706, Account number: 540006, Account Name: U.S. Environmental Protection Agency (EPA). Note: the 051036706 company name appears as "U.S. EPA"; the receiving bank is still the Federal Reserve Bank of Cleveland.

Please include in wire or ACH message fields the following: the words "MVECP Fees", manufacturer name, and engine family/test group/HDV evaporative group name(s). If space is limited, list one name and the number of families.

Reduced Fee Section (if applicable)

Reduced fee submissions must be supported by the reduced fee calculation on Page 1 of this form and any relevant supporting information requested by EPA at the time of application review. Enter the number of vehicles/engines projected for sale under the engine family/test group. Enter the aggregate projected retail sales price of the vehicles or engines and multiply that value by 1% (.01). Enter and pay the reduce fee amount (minimum \$750). If you are an ICI, please enter the VIN for any vehicles/engines already (or soon to be) in your possession. For any additional VINs, please use a separate page. For further information see the reduced fee provisions under 40 CFR §1027.120.

Company Representative

Enter the representative's name, signature, title, phone/fax, date, and an e-mail address. Note: an acknowledgment of fees received will be sent to this e-mail address. No other receipts will be sent.

Bank Address for Private Mail Shipment (other than U.S. Postal Service)

If using a private shipping service such as Federal Express (or other service), send checks with fee filing forms to:

U.S. Bank Government Lockbox 979032 1005 Convention Plaza SL-MO-C2-GL St. Louis, MO 63101 To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 4/26/2010 3:10:12 PM Subject: Re: EPA 4WD Dyno Anchors

Yes, I confirmed with the lab supervisor that it is still valid.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 04/22/2010 07:26 AM Subject: EPA 4WD Dyno Anchors

Hello Jim,

Audi would like verification that the anchoring system for the EPA's 4WD dyno described in the attachment is still valid.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

[attachment "20081022150640433.pdf" deleted by Jim Snyder/AA/USEPA/US]

To:	David Good/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA[]; in
Snyder/A/	VUSEPA/US@EPA[]
Cc:	Ex. 7
From:	EX. /
Sent:	Wed 4/28/2010 1:16:42 PM
Subject:	2009 Volkswagen Group NOx Fleet Average Final Report

CBI 9VWX COMMON CR1 ABT R00.XLS

Hello Dave;

As we discussed today on the phone, I wanted to bring to your attention that the three HLDT test groups as listed on the "Current MY Credit Calculation" tab, do not appear in the summary section at the bottom of the page.

The attached file will be submitted to the agency via Verify later today. If you have any questions, please contact me directly.

В	est regards,	
	Ex. 7	
V	OLKSWAGEN GROUP OF AMERI	CA, INC.
ļ		

1

To: richard.thomas@vw.com[]

Cc: christoph.kohnen@vw.com;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Robert

Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Ching-Shih

Yang/OU=AA/O=USEPA/C=US@EPA[]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Robert

Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Ching-Shih

Yang/OU=AA/O=USEPA/C=US@EPA[]; N=Robert

Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Ching-Shih

Yang/OU=AA/O=USEPA/C=US@EPA[]; N=Ching-Shih Yang/OU=AA/O=USEPA/C=US@EPA[]

From: CN=David Good/OU=AA/O=USEPA/C=US

Sent: Thur 4/29/2010 11:02:09 PM

Subject: 2011 FE Guide data for web posting on May 24, 2010 - Please review & let EPA know

after the Verify data is error free and ready for posting on www.fueleconomy.gov

VW 2010FE Guide all labels for DOE-all rel dates-no-sales 4-9-10.xls

Audi 2010FE Guide all labels for DOE-all rel dates-no-sales 4-9-10.xls

Audi 2010FE Guide new & revised labels for DOE-all rel dates-no-sales 4-9-10.xls

Audi-VW-Etc 2011FEguide-w-sales-all-rel-dates-4-27-10.xls

Bentley 2010FE Guide all labels for DOE-all rel dates-no-sales 4-9-10.xls

Bugatti 2010FE Guide all labels for DOE-all rel dates-no-sales 4-9-10.xls

Lamborghini 2010FE Guide all labels for DOE-all rel dates-no-sales 4-9-10.xls

(embedded image)

Richard,

Attached are Excel Spreadsheets for each manufacturer which you are handling.

Two Types of 2010 Data Files Provided FYI: One type of 2010 spreadsheet contains new and revised FE Labels since the web was last updated on October 16, 2009. This new data was sent to DOE on April 27, 2010 for web posting as soon as possible. The second type of 2010 spreadsheet contains all 2010 FE Labels in EPA's Verify data base as of April 9, 2010. Please review the 2010 files, make changes in EPA's data base as needed----please email Bob Peavyhouse and me if you see any major problems with the 2010 data as posted on the web.

One Type of 2011 Data File: The third type of spreadsheet contains all the 2011 FE label data from EPA's Verify data base as of April 27, 2010. Please review the 2011 spreadsheet and confirm for your records that the data are correct. Please make sure that the release date is accurate for the models listed. Please double check any new FE Labels which you input into Verify (not listed in this spreadsheet) to make sure they are error free. Any corrections should be made directly in the EPA Verify database. [Do not correct the spreadsheet and send it back.]

The last date to make changes for the 2011 web posting is May 17, 2010. EPA will review the data on May 18 and forward it to DOE on May 19 for posting on the web on May 24, 2010.

Reminders:

1. EPA Comments: Please review all the comments in column 1 of the spreadsheet and make corrections as needed.

- 2. EPA generated Fields: Please double check the transmission, gas guzzler and model type descriptor fields in the attached spreadsheet (called "Trans as listed in FE Guide (derived from col AA thru AF)" and "Guzzler?" and "Engine Descriptor (40 characters or less)" in the attached spread sheet). These fields were derived by EPA (and not directly input to Verify by manufacturers). Please be sure they are accurate as they will be used to describe your vehicles on the web.
- 3. FFVs & Dual fuel Vehicles: For flexible-fueled and dual fuel vehicles, please enter data for both fuels in the same model type index---by clicking on the buttons to "Add Another Fuel Usage" and "Add another Base Level Fuel Usage." Then, for example, enter the gasoline test data in "Base Level Fuel Usage #1" and the E85 test data in "Base Level Fuel Usage #2." Please don't enter the gasoline and alternative fuel data using two separate index numbers.
- 4. Engine or Model Type Descriptors: If you need to enter a basic engine/model type descriptor (so that customers can easily identify two otherwise identical model types), please enter the descriptor in the Verify "Manufacturer Fuel Economy Label Comments" field. Please be clear and concise (40 characters or less) about the information added in the comment field, for example: Engine descriptor "4-valve" needed for this model type.
- 5. Relabeling: When relabeling vehicles for reasons specified 40 CFR 600.507(a) and 600.314-08(e)(4), please revise the original Index with the revised FE label information and also revise the release date to the effective date when the FE Label was revised. Please include in the model type comment field the reason for relabeling. Note that the provisions of 40 CFR 600.314-08 state that label values must not change for entire model year, except for 600.507(a) and 600.314-08(e)(4) reasons.
- 6. New Error Checks: We added a new error check to the spreadsheet which checks the manufacturer's calculation of the unadjusted combined mpg value. If your unadjusted combined mpg value does not agree with EPA's calculation please revise Verify accordingly. Errors in the unadjusted combined mpg value are sometimes caused by entering into Verify incorrectly rounded unadjusted city and/or unadjusted highway mpg values.
- 7. Forwarded reminders: Also, please read the reminders in the forwarded message below.

Please email me and your EPA team member when your 2011 Verify data is "good to go" (after any needed changes or additions are made to Verify and you are sure that the Verify data is correct).

Regards

---- Forwarded by David Good/AA/USEPA/US on 04/29/2010 04:11 PM ----

From: David Good/AA/USEPA/US

Date: 04/20/2010 06:29 PM

Subject: 2011 FE Guide - Schedule for May, 2010 web release on www.fueleconomy.gov

To manufacturers,

VW FOIA, EPA

Here's our tentative schedule for May, 2010 web update for the 2011 FE Guide.

2011 FE Guide Schedule: As you know, EPA and DOE typically put the new models on the web in mid-May, mid-July, Sept (first week) and Oct (second week). Attached is EPA's time line for this year's mid-May posting for early-introduction 2011MY vehicles.

2

Date Action

Apr 27 (Tues) EPA staff performs 2011 FE Guide Verify query (separated by mfr, etc) for EPA review

Apr 28 (Wed) EPA sends FE Guide data to manufacturers for review & corrections; also sends prelim data to

DOE

Apr 29-May 17 Mfrs review & make corrections

May 17 (Mon) Last day for manufacturers to make corrections and add new data May 18 (Tues) EPA staff performs 2011 FE Guide Verify query for EPA review

May 19 (Wed) EPA sends final data to DOE

May 24 (Mon) DOE publishes 2011 FE Guide data on web

Reminders:

Release date for 2011 Labels: Please be sure that the release date is correct in EPA's Verify data base. For the May release, we will post FE Labels on the web which have a release date of May 24, 2010 and earlier.

2WD SUV Classification: As outlined in my Feb 24, 2010 email message to the Alliance and AlAM---when labeling 2WD SUVs, please continue to use the same vehicle classification category as in past model years (even though 2WD SUVs equal to or less than 6000 lbs GVWR will be included in 2011 passenger car CAFEs). EPA will require 2011 and later model year 2WD SUVs to continue to be included in the 2WD SUV comparable class for fuel economy labeling purposes, based on the provisions of 40 CFR 600.315-08(a)(1) and 600.315-08(a)(2) as revised in 74 FR 61537, November 25, 2009.

Rounding method changed slightly for mpg-based (derived) 5-cycle FE Labels: The rounding method for derived 5-cycle FE Label calculations changed slightly for reasons outlined in 74 FR 61537, November 25, 2009. The provisions of 40 CFR 600.210-08(a)(2)(i) and (a)(2)(ii) were revised to require the city and highway model type fuel economy values to be rounded to four decimal places prior to calculating the mpg-based (derived) 5-cycle FE Label values. Previously, the city and highway model type fuel economy values were rounded to one decimal place prior to calculating the mpg-based (derived) 5-cycle FE Label values.

Fuel Costs: New 2011 fuel costs will be provided to manufacturers in a future EPA guidance letter. Until the new fuel costs are provided, manufacturers should use the 2010 model year fuel costs provided in CISD-09-16. Please contact Bob Peavyhouse (734-214-4814 or by email) or me if you need a fuel cost for LPG or Hydrogen.

Range of comparable vehicles: Until the 2011 ranges (for the various classes of vehicles) are provided in a future EPA guidance letter, manufacturers should continue to use the 2010 model year ranges provided in CISD-09-17 (except if a model exceeds the 2010 range values, the manufacturer should extend the range appropriately); ref 40 CFR 600.306-08(b)(1).

If you have any questions, feel free to give your team member or me a call or send us an email message. I'm at 734-214-4450.

Regards

EPA comnVERIFY coModel Yr Mfr Name Division Carline	Verify Mfr	Index (Mo Eng	Displ# Cy	'
Warning - if trans type is Au20112 Volkswage Volkswage NEW BEE	E.///X	66	2.5	5
Error in combined unadjust@0ftVolkswageVolkswageEOS	VWX	68	2.0	4
Warning - if trans type is Au20112 Volkswage Volkswage NEW BEE	E.///X	65	2.5	5
2010 Volkswage Volkswage NEW BEB	E. VMX	67	2.5	5
Warning - if trans type is Aulon@VolkswageVolkswageCC	VWX	71	3.6	6
Warning - if trans type is Au20112 Volkswage Volkswage CC 4MOT	ΓΙVWX	72	3.6	6
Warning - if trans type is Au20112VolkswageVolkswageGOLF	VWX	28	2.5	5
2010 Volkswage Volkswage GOLF	VWX	31	2.5	5
Diesel; Warning - if trans ty@e1s VolkswageVolkswageGOLF	VWX	75	2.0	4
Diesel; 2010VolkswageVolkswageGOLF	VWX	79	2.0	4
Warning - if trans type is Au 20 112 Volkswage VolkswageJETTA	VWX	27	2.5	5
2010 Volkswage Volkswage JETTA	VWX	30	2.5	5
Diesel; Warning - if trans ty@e1s VolkswageVolkswageJETTA	VWX	74	2.0	4
Diesel; 2010 Volkswage Volkswage JETTA	VWX	77	2.0	4
Warning - if trans type is Au20112 Volkswage Volkswage PASSAT	VWX	52	2.0	4
Diesel; Warning - if trans ty 2€1\$ VolkswageAudi A3	VWX	76	2.0	4
Warning - if trans type is Au20112 Volkswage Volkswage JETTA SF	⊃∨WX	26	2.5	5
2010 Volkswage Volkswage JETTA SF	⊃VWX	29	2.5	5
Diesel; Warning - if trans ty@e1s VolkswageVolkswageJETTA SF	⊃∨WX	73	2.0	4
Diesel; 2010 Volkswage Volkswage JETTA SF	⊃∨wx	78	2.0	4
Warning - if trans type is Au20112 Volkswage Volkswage PASSAT	VVWX	54	2.0	4
Warning - if trans type is Autona VolkswageAudi Q7	VWX	62	3.6	6
Warning - if trans type is Aulong Volkswage Volkswage TOUARE	CVWX	61	3.6	6

Trans as I City	FE (GHw	y FE (CCom	ıb FE C	ity Unad H	lwy Unad0	Comb UnaGuz	zler? Air Asp	ir lAir Aspira
Auto(S6)	20	28	23	24.8461	39.7267	29.8832	NA	Naturally A
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Auto(S6)	20	29	23	25.1733	40.8	30.4155	NA	Naturally A
Manual(Mt	20	28	23	24.9892	39.3753	29.9061	NA	Naturally A
Auto(S6)	18	27	21	21.2	35.1	25.7972	NA	Naturally A
Auto(S6)	17	25	20	20.5	33.5	24.8373	NA	Naturally A
Alumo adionsted FE	E (w <u>æ</u> scalc	ulate x b31.89	942. 2 8le	ea 2₹.266% c	t 14/0 /12/12/14/09	31.8941	NA	Naturally A
Manual(Mt	22	30	25	25.18	39.6147	30.1185	NA	Naturally A
Auto(S6)	30	42	34	38.8462	60.1	46.1981	TC	Turbochare
Manual(M€	30	41	34	38.7511	58.535	45.7021	TC	Turbochare
Auto(A6)	23	30	25	27.0008	40.0169	31.6305	NA	Naturally A
Manual(Mt	22	30	25	24.8525	39.5714	29.8486	NA	Naturally A
Auto(S6)	30	42	34	38.8462	60.1	46.1981	TC	Turbochare
Manual(M€	30	41	34	38.7511	58.535	45.7021	TC	Turbochar
Auto(S6)	22	31	25	27.1189	42	32.2629	TC	Turbochar
Auto(S6)	30	42	34	38.8462	60.1	46.1981	TC	Turbochar
Auto(A6)	23	30	25	27.0008	40.0169	31.6305	NA	Naturally A
Manual(Mt	22	30	25	24.8525	39.5714	29.8486	NA	Naturally A
Auto(S6)	30	42	34	38.8462	60.1	46.1981	TC	Turbochare
Manual(M€	30	41	34	38.7511	58.535	45.7021	TC	Turbochare
Auto(S6)	22	31	25	27.1189	42	32.2629	TC	Turbochar

Auto(S6) 22 31 25 27.1189 42 32.2629 TC Turbochare sequing (\$60) e in modelitype comment field the reason sond regulations for reason for the reason

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SØA	Semi-Automatic	6N	N	Α	All Wheel Drive	
∌ d	Automatic	6N	N	F	2-Wheel Drive, Front	
₽ ¢d	Manual	5 N	N	F	2-Wheel Drive, Front	
SA	Semi-Automatic	6N	N	F	2-Wheel Drive, Front	5
M	Manual	6N	N	F	2-Wheel Drive, Front	5
∌ d	Automatic	6N	N	F	2-Wheel Drive, Front	
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SA	Semi-Automatic	6N	N	F	2-Wheel Drive, Front	5
M	Manual	6N	N	F	2-Wheel Drive, Front	5
SA	Semi-Automatic	6N	N	F	2-Wheel Drive, Front	
SA	Semi-Automatic	6N	N	F	2-Wheel Drive, Front	5
∌ d	Automatic	6N	N	F	2-Wheel Drive, Front	
₽ ¢d	Manual	5 N	N	F	2-Wheel Drive, Front	
SA	Semi-Automatic	6N	N	F	2-Wheel Drive, Front	5
M	Manual	6N	N	F	2-Wheel Drive, Front	5
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Range1 -	IFuel Usa	gFuel UsagFuel Unit	Fuel Unit Gas	Guzz Gas Guzz 2Dr	Pass '2Dr	Lugg 4Dr I	ass '
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	G	Gasoline (IMPG	miles per çN	Not exempt			
	G	Gasoline (IMPG	miles per çN	Not exempt			
	GP	Gasoline (IMPG	miles per çN	Not exempt			94
	GP	Gasoline (IMPG	miles per çN	Not exempt			94
	G	Gasoline (IMPG	miles per çN	Not exempt			
	G	Gasoline (IMPG	miles per çN	Not exempt			
	DU	Diesel, ultrMPG	miles per çN	Not exempt			
	DU	Diesel, ultrMPG	miles per çN	Not exempt			
	G	Gasoline (IMPG	miles per çN	Not exempt			91
	G	Gasoline (IMPG	miles per çN	Not exempt			91
	DU	Diesel, ultrMPG	miles per çN	Not exempt			91
	DU	Diesel, ultrMPG	miles per çN	Not exempt			91
	GP	Gasoline (IMPG	miles per çN	Not exempt			96
	DU	Diesel, ultrMPG	miles per çN	Not exempt			
	G	Gasoline (IMPG	miles per çN	Not exempt			92
	G	Gasoline (IMPG	miles per çN	Not exempt			92
	DU	Diesel, ultrMPG	miles per çN	Not exempt			92
	DU	Diesel, ultrMPG	miles per çN	Not exempt			92
	GP	Gasoline (IMPG	miles per çN	Not exempt			97
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			1680	1680 this is a double clutch transmission and it has no torque con
	85	12	1696	1696 updated with 2010 unit price for regular at \$2.60
	85	12	1696	1696 updated with 2010 fuel unit price of \$2.60
13			1999	1999update to 2010 fuel unit prcie of \$2.80
13			2100	2100update to 2010 fuel unit prcie of \$2.80
	94	15	1502	1502 CORRECTED MODEL TYPE FE AND ANNUAL FUEL COS
	94	15	1560	1560update to 2010 fuel unit prcie of \$2.60
	94	15	1191	1191updated with 2010 units price of \$2.70 Diesel
	94	15	1191	1191 updated with 2010 fuel unit price of \$2.70 Diesel
16			1560	1560update to 2010 fuel unit prcie of \$2.60
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16			1191	1191updated with 2010 units price of \$2.70 Diesel
16			1191	1191 updated with 2010 fuel unit price of \$2.70 Diesel
14			1680	1680 CORRECTED DATA SUB TO NO SUB FOR ALL TESTS,
	89	20	1191	1191 updated with 2010 units price of \$2.70 Diesel
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33			1191	1191updated with 2010 units price of \$2.70 Diesel
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36			1680	1680updated with 2010 unit fuel price of \$2.80
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			2625	2625updated 2010 fuel unit price of \$2.80RELAB

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2 2 4Compact Ccar	2	2	4 Compact Ccar	Vehicle Sp 6/18/2009	1925	N
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2 2 4Compact Ccar Vehicle Sp 6/18/2009 1924 2 2 4Compact Ccar Derived 5 7/22/2009 1898 N 2 2 4Compact Ccar Derived 5 7/22/2009 1900 N 2 2 5Midsize Ccar Vehicle Sp 6/12/2009 1903 N 2 2 7Small Staticar Derived 5 7/22/2009 1896 N 2 2 7Small Staticar Vehicle Sp 6/18/2009 1920 N 2 2 7Small Staticar Vehicle Sp 6/18/2009 1923 N 2 2 7Small Staticar Derived 5 7/22/2009 1899 N 2 2 7Small Staticar Derived 5 7/22/2009 1899 N 2 2 7Small Staticar Derived 5 7/22/2009 1901 N	2	2	4Compact Ccar	Derived 5- 7/22/2009	1902	N
2 2 4Compact Ccar Derived 5 7/22/2009 1898 N 2 2 4Compact Ccar Derived 5 7/22/2009 1900 N 2 2 5Midsize Ccar Vehicle Sp 6/12/2009 1903 N 2 2 7Small Staticar Derived 5 7/22/2009 1896 N 2 2 7Small Staticar Vehicle Sp 6/18/2009 1920 N 2 2 7Small Staticar Vehicle Sp 6/18/2009 1920 N 2 2 7Small Staticar Vehicle Sp 6/18/2009 1923 N 2 2 7Small Staticar Derived 5 7/22/2009 1899 N 2 2 7Small Staticar Derived 5 7/22/2009 1901 N	2	2	4 Compact Ccar	Vehicle Sp 6/18/2009	1921	N
2 2 4Compact Ccar Derived 5-\(\tau 7/22/2009 \) 1900 N 2 2 5Midsize Ccar Vehicle Sp 6/12/2009 1903 N 2 2 7Small Staticar Derived 5-\(\tau 7/22/2009 \) 1896 N 2 2 7Small Staticar Vehicle Sp 6/18/2009 1920 N 2 2 7Small Staticar Vehicle Sp 6/18/2009 1923 N 2 2 7Small Staticar Derived 5-\(\tau 7/22/2009 \) 1899 N 2 2 7Small Staticar Derived 5-\(\tau 7/22/2009 \) 1901 N	2	2	4 Compact Ccar	Vehicle Sp 6/18/2009	1924	N
2 2 5 Midsize Cacar Vehicle Sp 6/12/2009 1903 N 2 2 7 Small Staticar Derived 5 7/22/2009 1896 N 2 2 7 Small Staticar Vehicle Sp 6/18/2009 1920 N 2 2 7 Small Staticar Vehicle Sp 6/18/2009 1923 N 2 2 7 Small Staticar Derived 5 7/22/2009 1899 N 2 2 7 Small Staticar Derived 5 7/22/2009 1901 N	2	2	4Compact Ccar	Derived 5- 7/22/2009	1898	N
2 2 7 Small Staticar Derived 5-1 7/22/2009 1896 N 2 2 7 Small Staticar Vehicle Sp 6/18/2009 1920 N 2 2 7 Small Staticar Vehicle Sp 6/18/2009 1923 N 2 2 7 Small Staticar Derived 5-1 7/22/2009 1899 N 2 2 7 Small Staticar Derived 5-1 7/22/2009 1901 N	2	2	4Compact Ccar	Derived 5-47/22/2009	1900	N
2 2 7 Small Staticar Vehicle Sp 6/18/2009 1920 N 2 2 7 Small Staticar Vehicle Sp 6/18/2009 1923 N 2 2 7 Small Staticar Derived 5-7/22/2009 1899 N 2 2 7 Small Staticar Derived 5-7/22/2009 1901 N	2	2	5 Midsize Cacar	Vehicle Sp 6/12/2009	1903	N
2 7 Small Staticar Vehicle Sp 6/18/2009 1923 N 2 2 7 Small Staticar Derived 5-7/22/2009 1899 N 2 2 7 Small Staticar Derived 5-7/22/2009 1901 N	2	2	7 Small Staticar	Derived 5-47/22/2009	1896	N
2 2 7 Small Staticar Derived 5-√7/22/2009 1899 N 2 2 7 Small Staticar Derived 5-√7/22/2009 1901 N	2	2	7Small Staticar	Vehicle Sp 6/18/2009	1920	N
2 2 7 Small Staticar Derived 5 7/22/2009 1901 N	2	2	7 Small Staticar	Vehicle Sp 6/18/2009	1923	N
	2	2	7 Small Staticar	Derived 5- 7/22/2009	1899	N
2 2 8Midsize St.car Vehicle Sp 6/12/2009 1904 N	2	2	7 Small Staticar	Derived 5- 7/22/2009	1901	N
	2	2	8Midsize Strcar	Vehicle Sp 6/12/2009	1904	N

regulations, the margufacturer വാടുട്ടെപ്പ് വൈ economy പ്രവാദ്യാ വാട്ടാ വാട്ടാ values were 14 MPG c regulations, the margufacturer വാടുട്ടെപ്പ് പ്രൈ uel economy പ്രവാദ്യാം പ്രോഗ്യാ (2003-1Previous values were 14 MPG c

Label RecRelabel	Relabel D ₍ Suppre	ss ₍ Police	/EmComment:Cyl Deact [*] Cyl l	Deact Var Va	lve Var Valve
N	N	Ν	N	Υ	INLET CO
N	N	Ν	Ν	Υ	CONTINU
N	N	Ν	Ν	Υ	INLET CO
N	N	Ν	N	Υ	INLET CO
N	N	Ν	Ν	Υ	INTAKE/E)
N	N	Ν	N	Υ	INTAKE/E)
N	N	Ν	N	Υ	INLET CO
N	N	Ν	Ν	Υ	INLET CO
N	N	Ν	N	N	
N	N	Ν	N	N	
N	N	Ν	N	Υ	INLET CO
N	N	Ν	N	Υ	INLET CO
N	N	Ν	N	N	
N	N	Ν	N	Ν	
N	N	Ν	Ν	Υ	CONTINU
N	N	Ν	Ν	N	
N	N	Ν	Ν	Υ	INLET CO
N	N	Ν	N	Υ	INLET CO
N	N	Ν	N	N	
N	N	Ν	Ν	N	
N	N	Ν	Ν	Υ	CONTINU
i∤y, 20 MPQ <u>Rh</u> ighway			N	Υ	INTAKE/E
¥y, 20 MP Q ≳ <u>h</u> ighway	/,RedabelMRG comb	oine d ;	N	Υ	INTAKE/E

Value Var Valve Energy St Energy St# Batterie:Battery TyBattery TyTotal Volt:Batt EnergBatt Speci

QUSLY VARIABLE / MECHANICAL HYDRAULIC

MRIABLE VALVE TIMING

QUSLY VARIABLE / MECHANICAL HYDRAULIC

QUSLY VARIABLE / MECHANICAL HYDRAULIC

QT CAMSHAFT POSITION CORRECTED WITH HYDRAULICALLY ADJUSTING ROTATION ANGLE

ST CAMSHAFT POSITION CORRECTED WITH HYDRAULICALLY ADJUSTING ROTATION ANGLE

QUSLY VARIABLE / MECHANICAL HYDRAULIC

QUSLY VARIABLE / MECHANICAL HYDRAULIC

Ν

Ν

QUSLY VARIABLE / MECHANICAL HYDRAULIC

QUSLY VARIABLE / MECHANICAL HYDRAULIC

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MRIABLE VALVE TIMING

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QUSLY VARIABLE / MECHANICAL HYDRAULIC

QUSLY VARIABLE / MECHANICAL HYDRAULIC

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MRIABLE VALVE TIMING

ST CAMSHAFT POSITION CORRECTED HYDRAULICALLY ADJUSTING ROTATION ANGLE

ST CAMSHAFT POSITION CORRECTED HYDRAULICALLY ADJUSTING ROTATION ANGLE

Polys (Watto r/kg)ent:# CapacitcRegen BraRegen BraRegen BraDriver Cn1Fuel Cell (Usable H2Fuel Cell (

Multipoint/:

Spark Ignit

Multipoint/s

Multipoint/:

Spark Ignit

Spark Ignit

Multipoint/:

Multipoint/s

Direct Dies

Direct Dies

Multipoint/:

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Direct Dies

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Spark Ignit

Direct Dies

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Direct Dies

Direct Dies

Spark Ignit

Spark Ignit

Spark Ignit

EPA comnVERIFY ccModel Yr Mfr Nam	e Division	Carline	Verify N	Mfr Index (Mo Eng	Displ# Cy	/I
Warning - if trans type is Au 20 rt û Audi	Audi	R8	ADX	16	5.2	10
2010 Audi	Audi	R8	ADX	17	5.2	10
2010 Audi	Audi	R8	ADX	32	4.2	8
2010 Audi	Audi	R8	ADX	33	4.2	8
Warning - if trans type is Au 26n Audi	Audi	TT ROAI	DSADX	45	2.0	4
2010 Audi	Lamborgl	niGallardo	CADX	12	5.2	10
2010 Audi	Lamborgl	niGallardo	CADX	14	5.2	10
Warning - if trans type is Au 26n t Audi	Lamborgl	niGallardo	SADX	13	5.2	10
2010 Audi	Lamborgl	niGallardo	SADX	15	5.2	10
Error in combined unadjust 2017€ Audi	Audi	A5 Cabri	oIADX	19	2.0	4
2010 Audi	Audi	A5 Cabri	olADX	23	2.0	4
2010 Audi	Audi	A5 QUA	TTADX	22	2.0	4
2010 Audi	Audi	A5 QUA	TTADX	25	2.0	4
Warning - if trans type is Au 26r t Audi	Audi	A5 QUA	ΓΤΑDX	60	3.2	6
2010 Audi	Audi	S5	ADX	9	4.2	8
2010 Audi	Audi	S5	ADX	10	4.2	8
Warning - if trans type is Au 2011 Audi	Audi	S5 Cabri	olADX	38	3.0	6
Warning - if trans type is Au 20 n12Audi	Audi	TT COU	PEADX	44	2.0	4
2010 Audi	Volkswag	eEOS	ADX	57	2.0	4
Error in combined unadjust@01711Audi	Audi	A4	ADX	18	2.0	4
2010 Audi	Audi	A4 QUA		21	2.0	4
2010 Audi	Audi	A4 QUA		24	2.0	4
2010 Audi	Audi	S4	ADX	36	3.0	6
Warning - if trans type is Aน ชิด านิAudi	Audi	S4	ADX	37	3.0	6
Warning - if trans type is Au 20 11@Audi	Volkswag	eCC	ADX	53	2.0	4
2010 Audi	Volkswag		ADX	58	2.0	4
2010 Audi	Volkswag		ADX	56	2.0	4
Warning - if trans type is Au 20 ศนิAudi	Volkswag		ADX	70	2.0	4
2010 Audi	Volkswag		ADX	55	2.0	4
Warning - if trans type is Aน ชิด านิAudi	Volkswag		ADX	69	2.0	4
2010 Audi	Audi	A6	ADX	59	3.2	6
2010 Audi	Audi	A6 QUA		8	4.2	8
2010 Audi	Audi	A6 QUA		34	3.0	6
2010 Audi	Audi	A8	ADX	7	4.2	8
Warning - if trans type is Aน 20 ศนิAudi	Audi	S6	ADX	42	5.2	10
2010 Audi	Audi	A8 L	ADX	6	4.2	8
2010 Audi	Audi	A3	ADX	46	2.0	4
Warning - if trans type is Au 20 11@Audi	Audi	A3	ADX	47	2.0	4
Warning - if trans type is Au 20 11@Audi	Audi	A3 QUA		43	2.0	4
2010 Audi	Audi	A4 AVAN		20	2.0	4
2010 Audi	Audi	A6 AVAN		35	3.0	6
Warning - if trans type is Au 20 n@Audi		eTIGUAN	ADX	50	2.0	4
2010 Audi	-	eTIGUAN	ADX	51	2.0	4
Warning - if trans type is Au 20 n12Audi	Audi	Q5	ADX	48	3.2	6
2010 Audi	Audi	Q7	ADX	11	4.2	8
Diesel; Warning - if trans ty@e1s0 Audi	Audi	Q7	ADX	63	3.0	6
Warning - if trans type is Au 2011 Audi		eTIGUAN		49	2.0	4
Diesel; Warning - if trans ty 2e1 \$ Audi	_	eTouareg	ADX	64	3.0	6
, <u> </u>			-	• •		-

Trans as I City	FE (GHw	y FE (CCom	b FE C	ity Unad _i F	łwy UnadC	omb UnaGu	zzler? Air Asp	oir IAir Aspira
Auto(AM6)	13	20	16	15.8	24.8	18.8839G	NA	Naturally A
Manual(M6	12	20	15	13.7	23.9	16.9565 G	NA	Naturally A
Auto(S6)	13	18	15	15.4	25.0451	18.6283 G	NA	Naturally A
Manual(M6	12	19	15	15.3	26.8	18.9614G	NA	Naturally A
Auto(S6)	21	29	24	27.5267	39.7256	31.9404	TC	Turbochar
Auto(AM6)	14	20	16	16.1	25.4	19.276G	NA	Naturally A
Manual(M6	12	20	15	14	24	17.2308G	NA	Naturally A
Auto(AM6)	13	20	16	16	25.4	19.197G	NA	Naturally A
Manual(M6	12	20	14	13	22.6	16.0722G	NA	Naturally A
Auto(AV)	23	30	26	29.2373	42.7743	34.0926	TC	Turbochar
Auto(S6)	20	26	23	25.9	37	29.9422	TC	Turbochar
Auto(S6)	21	27	23	25.9563	37.7989	30.2164	TC	Turbochar
Manual(Mt	22	30	25	27.6402	42.575	32.8212	TC	Turbochar
Auto(S6)	18	27	21	22.6	36.2	27.1981	NA	Naturally A
Auto(S6)	16	24	19	20.4	31	24.1098	NA	Naturally A
Manual(M6	14	22	17	17.3	29.3	21.2088G	NA	Naturally A
Auto(S7)	17	26	20	20.3	34	24.7961	SC	Superchar
Auto(S6)	21	29	24	27.5267	39.7256	31.9404	TC	Turbochar
Manual(Mt	21	31	25	26.0803	41.521	31.3218	TC	Turbochar
Auto(AV)	23	30	26	29.2373	42.7743	34.0926	TC	Turbochar
Auto(S6)	21	27	23	25.9563	37.7989	30.2164	TC	Turbochar
Manual(Mt	22	30	25	27.6402	42.575	32.8212	TC	Turbochar
Manual(Mt	18	27	21	21.5	34.1	25.7879	SC	Superchar
Auto(S7)	18	28	21	21.6	35	26.096	SC	Superchar
Auto(S6)	22	31	25	27.1189	42	32.2629	TC	Turbochar
Manual(Mt	21	31	25	26.0803	41.521	31.3218	TC	Turbochar
Manual(Mt	21	31	25	26.0803	41.521	31.3218	TC	Turbochar
Auto(S6)	24	32	27	29.8294	43.5414	34.7546	TC	Turbochar
Manual(Mt	21	31	25	26.0803	41.521	31.3218	TC	Turbochar
Auto(S6)	24	32	27	29.8294	43.5414	34.7546	TC	Turbochar
Auto(AV)	18	28	22	23	38.9	28.184	NA	Naturally A
Auto(S6)	16	23	18	19.8911	31.5002	23.8458	NA	Naturally A
Auto(S6)	18	26	21	21.7553	34.7286	26.1514	SC	Superchar
Auto(S6)	16	23	18	19.8911	31.5002	23.8458	NA	Naturally A
Auto(S6)	14	19	16	17.2	26.7	20.4789G	NA	Naturally A
Auto(S6)	16	23	18	19.8911	31.5002	23.8458	NA	Naturally A
Manual(Mt	21	30	24	25.2906	40.4003	30.4083	TC	Turbochar
Auto(S6)	22	28	24	27.0473	38.8702	31.3364	TC	Turbochar
Auto(S6)	21	28	24	27.2	37.1	30.9119	TC	Turbochar
Auto(S6)	21	27	23	25.9563	37.7989	30.2164	TC	Turbochar
Auto(S6)	18	26	21	21.7553	34.7286	26.1514	SC	Superchar
Auto(S6)	18	24	21	22.9	34.1	26.8716	TC	Turbochar
Manual(Mt	19	26	21	23.3	36.2	27.75	TC	Turbochar
Auto(S6)	18	23	20	22.7	30.7	25.7155	NA	Naturally A
Auto(S6)	13	18	15	16.2	24.6	19.1412	NA	Naturally A
Auto(S6)	17	25	20	19.8	33.2	24.1943	TC	Turbochar
Auto(S6)	18	24	20	22.5	33.3	26.3449	TC	Turbochar
Auto(S6)	18	25	20	21.9	34.4	26.1811	TC	Turbochar

Thand D	es ⊄ rans DesTrans, Otl# Gears	Trans	LocTrans	Cre Drive S	sys Drive Des Max EtharMax Biodi
A OU	Automated Manual	6N	Ν	Α	All Wheel Drive
6 ×d	Manual	6N	Ν	Α	All Wheel Drive
S9A	Semi-Automatic	6Y	Ν	Α	All Wheel Drive
P ¢d	Manual	6Y	Ν	Α	All Wheel Drive
SA	Semi-Automatic	6N	Ν	Α	All Wheel Drive
A OU	Automated Manual	6Y	Ν	Α	All Wheel Drive
6 Ad	Manual	6N	Ν	Α	All Wheel Drive
∌ ¢d/1	Automated Manual	6N	Ν	Α	All Wheel Drive
6 Ad	Manual	6N	Ν	Α	All Wheel Drive
CVT	Continuously Variable	1 N	Ν	F	2-Wheel Drive, Front
SA	Semi-Automatic	6Y	Ν	Α	All Wheel Drive
SA	Semi-Automatic	6Y	Ν	Α	All Wheel Drive
М	Manual	6Y	Ν	Α	All Wheel Drive
6 80A	Semi-Automatic	6N	N	Α	All Wheel Drive
6 8/ A	Semi-Automatic	6Y	Ν	Α	All Wheel Drive
PA C	Manual	6N	Ν	Α	All Wheel Drive
SA	Semi-Automatic	7 N	Ν	Α	All Wheel Drive
SA	Semi-Automatic	6N	Ν	Α	All Wheel Drive
M	Manual	6N	Ν	F	2-Wheel Drive, Front
CVT	Continuously Variable	1 N	Ν	F	2-Wheel Drive, Front
SA	Semi-Automatic	6Y	Ν	Α	All Wheel Drive
M	Manual	6Y	Ν	Α	All Wheel Drive
M	Manual	6N	Ν	Α	All Wheel Drive
SA	Semi-Automatic	7 N	Ν	Α	All Wheel Drive
SA	Semi-Automatic	6N	Ν	F	2-Wheel Drive, Front
M	Manual	6N	Ν	F	2-Wheel Drive, Front
M	Manual	6N	Ν	F	2-Wheel Drive, Front
SA	Semi-Automatic	6N	Ν	F	2-Wheel Drive, Front
М	Manual	6N	Ν	F	2-Wheel Drive, Front
SA	Semi-Automatic	6N	Ν	F	2-Wheel Drive, Front
ed/T	Continuously Variable	1 N	Ν	F	2-Wheel Drive, Front
6 80A	Semi-Automatic	6Y	Ν	Α	All Wheel Drive
SA	Semi-Automatic	6Y	Ν	Α	All Wheel Drive
SSØA.	Semi-Automatic	6Y	Ν	Α	All Wheel Drive
SS/A	Semi-Automatic	6N	Ν	Α	All Wheel Drive
S(A)	Semi-Automatic	6Y	Ν	Α	All Wheel Drive
M	Manual	6N	Ν	F	2-Wheel Drive, Front
SA	Semi-Automatic	6N	Ν	F	2-Wheel Drive, Front
SA	Semi-Automatic	6N	Ν	Α	All Wheel Drive
SA	Semi-Automatic	6Y	Ν	Α	All Wheel Drive
SA	Semi-Automatic	6Y	Ν	Α	All Wheel Drive
SA	Semi-Automatic	6N	N	F	2-Wheel Drive, Front
M	Manual	6N	N	F	2-Wheel Drive, Front
SØA	Semi-Automatic	6N	N	A	All Wheel Drive
SØA	Semi-Automatic	6Y	N	Α	All Wheel Drive
SA	Semi-Automatic	6N	N	Α	All Wheel Drive 5
SA	Semi-Automatic	6N	Ν	Α	All Wheel Drive
SA	Semi-Automatic	6N	Ν	Α	All Wheel Drive 5

Range1 - IFuel Usa	gFuel UsagFuel Uni	t Fuel Unit Gas G	Guzz Gas Guzz 2Dr F	ass '2Dr	Lugg 4Dr	Pass '
GP	Gasoline (IMPG	miles per çN	Not exempt			
GP	Gasoline (IMPG	miles per çN	Not exempt			
GP	Gasoline (IMPG	miles per çN	Not exempt			
GP	Gasoline (IMPG	miles per çN	Not exempt			
GP	Gasoline (IMPG	miles per çN	Not exempt			
GP	Gasoline (IMPG	miles per ¿N	Not exempt			
GP	Gasoline (IMPG	miles per çN	Not exempt			
GP	Gasoline (IMPG	miles per çN	Not exempt			
GP	Gasoline (IMPG	miles per çN	Not exempt			
GP	Gasoline (IMPG	miles per çN	Not exemp	81	10	
GP	Gasoline (IMPG	miles per çN	Not exemp	81	10	
GP	Gasoline (IMPG	miles per çN	Not exemp	84	12	
GP	Gasoline (IMPG	miles per çN	Not exemp	84	12	
GP	Gasoline (IMPG	miles per çN	Not exemp	84	12	
GP	Gasoline (IMPG	miles per çN	Not exemp	84	12	
GP	Gasoline (IMPG	miles per çN	Not exemp	84	12	
GP	Gasoline (IMPG	miles per çN	Not exemp	81	10	
GP	Gasoline (IMPG	miles per çN	Not exempt			
GP	Gasoline (IMPG	miles per çN	Not exemp	77	11	
GP	Gasoline (IMPG	miles per ςN	Not exempt			91
GP	Gasoline (IMPG	miles per ξN	Not exempt			91
GP	Gasoline (IMPG	miles per cN	Not exempt			91
GP	Gasoline (IMPG	miles per cN	Not exempt			90
GP	Gasoline (IMPG	miles per cN	Not exempt			90
GP	Gasoline (IMPG	miles per cN	Not exempt			94
GP	Gasoline (IMPG	miles per çN	Not exempt			94
GP	Gasoline (IMPG	miles per cN	Not exempt			
GP	Gasoline (IMPG	miles per cN	Not exempt			•
GP	Gasoline (IMPG	miles per cN	Not exempt			91
GP	Gasoline (IMPG	miles per çN	Not exempt			91
GP	Gasoline (IMPG	miles per cN	Not exempt			98
GP	Gasoline (IMPG	miles per cN	Not exempt			98
GP	Gasoline (IMPG	miles per cN	Not exempt			98
GP CB	Gasoline (IMPG	miles per cN	Not exempt			100
GP GP	Gasoline (IMPG Gasoline (IMPG	miles per cN	Not exempt			98 107
GP	•	miles per cN	Not exempt			107 89
GP	Gasoline (IMPG Gasoline (IMPG	miles per çN miles per çN	Not exempt			89
GP	Gasoline (IMPG	miles per cN	Not exempt			89
GP	Gasoline (IMPG	miles per cN	Not exempt Not exempt			90
GP	Gasoline (IMPG	miles per cN	Not exempt			99
GP GP	Gasoline (IMPG	miles per cT	Truck			99
GP GP	Gasoline (IMPG	miles per cT	Truck			
GP	Gasoline (IMPG	miles per cT	Truck			
GP	Gasoline (IMPG	miles per cT	Truck			
DU	Diesel, ultrMPG	miles per gT	Truck			
GP	Gasoline (IMPG	miles per cT	Truck			
DU	Diesel, ultrMPG	miles per gT	Truck			
	,					

4Dr Lugg Htch	bk PaHtc	hbk LuAn	nual FuEP	A CalciComment City2 FE (Hwy2 Fue Comb2 Ft City2 Una
			2625	2625 SC03 and Cold CO tests are from Audi R8 configuration 0 o
			2801	2801 SC03 and Cold CO tests are from Audi R8 configuration 0 o
			2801	2801 updated with 2010 unit price of \$2.80
			2801	2801 updated to 2010 unit price of \$2.80
			1751	1751 corrected the number of forward gears to 6updated with 20
			2625	2625 SC03 and Cold CO tests are originally from worse case Aud
			2801	2801 SC03 and Cold CO tests are from Audi R8 worse case confi
			2625	2625 SC03 and Cold CO tests are from Audi R8 worse case confi
			2999	2999 SC03 and Cold CO tests are from Audi R8 worse case confi
			1617	1617 updated to 2010 unit price of \$2.80
			1827	1827 update with 2010 unit price of \$2.80
			1827	1827 update with 2010 unit price of \$2.80
			1680	1680 update with 2010 unit price of \$2.80
			1999	1999 updated with 2010 unit price of \$2.80
			2209	2209 updated with 2010 unit price of \$2.80
			2470	2470 updated with 2010 unit price of \$2.80
			2100	2100 updated with 2010 unit price of \$2.80
	74	13	1751	1751 corrected number of forward gears to 6updated with 2010 u
			1680	1680 added manuf confirmatory tests for Eos 2.0SA test group
12			1617	1617 updated to 2010 unit price of \$2.80
12			1827	1827 update with 2010 unit price of \$2.80
12			1680	1680 update with 2010 unit price of \$2.80
13			1999	1999 updated with 2010 unit price of \$2.80
13			1999	1999 Corrected trans code to S7 updated with 2010 unit price
13			1680	1680 CORRECTED SALES VOLUME FOR THIS CC MODEL, SE
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16			1554	1680 corrected manuf code, the manuf confirmatory tests for the E
16			1911	1554this is a double clutch transmission and it has no hydrolic tor 1911
16			2335	2335 updated with 2010 fuel price of \$2.80
16			1999	1999 updated with 2010 unit price of \$2.80
15			2335	2335 updated with 2010 fuel price of \$2.80
16			2625	2625 update with 2010 unit price of \$2.80
15			2335	2335 updated with 2010 fuel price of \$2.80
20			1751	1751Updated with \$2.80 unit price
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20			1751	1751 corrected number of forward gears to 6updated with 2010 u
28			1827	1827 update with 2010 unit price of \$2.80
34			1999	1999 updated with 2010 unit price of \$2.80
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			1999	1999 corrected to use derived 5-cycle method for labelupda
			2100	2100 Corrected number of forward gears to 6 from 1update
			2801	2801 updated with 2010 unit price of \$2.80
			2025	2025 updated with 2010 unit fuel price of \$2.70 Diesel
			2100	2100 changed to derived 5 cycle label calculationupdated 2
			2025	2025 updated with 2010 unit fuel price of \$2.70 Diesel
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2	2	1Two Seatecar	Vehicle Sp 6/5/2009	1894	N
2	2	1Two Seatecar	Vehicle Sp 5/25/2009	1850	N
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ith 2010 ugnit pr	ice of <u>2</u> \$2.80	1Two Seatecar	Vehicle Sp 5/25/2009	1851	N
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2	2	3Subcompacar	Derived 5- 6/3/2009	1869	N
2	2	3Subcompacar	Derived 5- 6/3/2009	1873	N
2	2	3Subcompacar	Derived 5- 6/3/2009	1872	N
2	2	3Subcompacar	Derived 5- 6/3/2009	1876	N
2	2	3Subcompacar	Vehicle Sp 7/22/2009	1895	N
2	2	3Subcompacar	Vehicle Sp 5/29/2009	1861	N
2	2	3Subcompacar	Vehicle Sp 5/29/2009	1862	N
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2	2	3Subcompacar	Vehicle Sp 6/5/2009	1893	N
2	2	3Subcompacar	Vehicle Sp 6/18/2009	1915	N
2	2	4Compact Ccar	Derived 5- 6/3/2009	1868	N
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2	2	4Compact Ccar	Derived 5- 6/3/2009	1874	N
2	2	4Compact Ccar	Vehicle Sp 6/3/2009	1889	N
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0 unit fuebprice	of \$2:80	4Compact Ccar	Vehicle Sp 6/12/2009	1905	N
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2	24	Compact Ccar	Vehicle Sp 6/18/2009	3013	N
2	2	4Compact Ccar	Vehicle Sp 7/22/2009	1909	N
me for PZEV co	onfigu ra tions	Compact Ccar	Vehicle Sp 6/18/2009	3014	N
2	2	4Compact Ccar	Vehicle Sp 7/22/2009	1908	N
2	2	5 Midsize Cacar	Derived 5- 8/7/2009	2060	N
2	2	5 Midsize Cacar	Derived 5- 5/29/2009	1859	N
2	2	5 Midsize Cacar	Vehicle Sp 6/3/2009	1887	N
2	2	5 Midsize Cacar	Derived 5- 5/29/2009	1858	N
2	2	5Midsize Cacar	Derived 5- 6/10/2009	1875	N
2	2	6Large Carscar	Derived 5- 5/29/2009	1857	N
2	2	7 Small Staticar	Vehicle Sp 6/12/2009	2556	N
2	2	7 Small Staticar	Vehicle Sp 6/12/2009	2557	Ν
2	2	7 Small Staticar	Vehicle Sp 6/5/2009	1892	N
2	2	7 Small Staticar	Derived 5- 6/3/2009	1870	Ν
2	2	8Midsize Strcar	Vehicle Sp 6/3/2009	1888	N
2	2	22 Special Pu	1 Derived 5- 6/12/2009	1930	N
2	2	22 Special Pu	1 Derived 5- 6/12/2009	1931	N
2	2	23 Special Pu	1 Vehicle Sp 6/11/2009	1965	N
2	2	23 Special Pu	1 Derived 5- 5/29/2009	1863	N
2	2	23 Special Pu	1 Vehicle Sp 7/22/2009	1966	N
2	2	23 Special Pu	1 Derived 5- 6/12/2009	1929	N
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Spark Ignit

Direct Dies

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VW FOIA, EPA 06/20/2017 2017-FFP_001165

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¥APesalve Var Valve Energy St Energy St # Batterie:Battery TyBattery TyTotal Volt;Batt EnerçBatt Speci NRIABLE VALVE TIMING NRIABLE VALVE TIMING Polys (Watto r/kg)ent:# CapacitcRegen BraRegen BraRegen BraDriver Cn1Fuel Cell (Usable H2Fuel Cell (

gjEN2EVap#আଧା√હgMcMotor GerMotor GerRated MotFuel Mete Fuel Metering Type 2 Desc Spark Ignit

Spark Ignit

To: Jim Snyder/AA/USEPA/US@EPA[]
Cc: Linc Wehrly/AA/USEPA/US@EPA[]

From:

Ex. 7

Sent:

Thur 5/6/2010 9:04:53 PM

Subject: Volkswagen 2.0L TDI AECD Description

Ex. 7

Hello Jim:

Please find a copy of the 2011 MY Volkswagen 2.0L TDI AECD description for your review/approval in the EPA VERIFY system. There is a second document in the form of a stand-alone request for approval of the "Ki-Factors," (that is, the upward- and downward-adjustment factors for the regeneration of the DPF and the NOx adsorber). This is the document referred to as Attachment No.2 in the Table of Contents for the AECD description.

If there are any questions, please let me know.

Best regards,



Volkswagen Group of America, Inc.



To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Tue 5/11/2010 6:53:18 PM VW Group: Test Waiver Requests Submitted
Hello Jim,	
This is just a	a "heads up" for the two test waiver requests I submitted.
updated re 2006. It use an automat	ets a new body for MY 2011. This is a new test group for MY 2011 (BVWXV02.0MPI). It is an incarnation of the naturally aspirated 2.0l engine that was discontinued for the U.S. after MY as MPI fuel injection similar to the current 2.5l 5 cylinder engine. It comes equipped with either cic 6 speed or a manual 5 speed transmission. The Jetta is the only model planned for this test Y 2011. We will also be submitting 2.5l, 5 cyl. versions very soon.
Let me kno	w if you need any more information.
Best regard	s,
Bob Hart	
Robert Har	t
Engineering	g and Environmental Office
Volkswager	n Group of America, Inc.
3800 Hamli	n Road
Auburn Hill	s, MI 48326
Phone: (248	3) 754-4224

Fax: (248) 754-4207

E-mail: robert.hart@vw.com

VW FOIA, EPA

2

06/20/2017

To: Jim Snyder/AA/USEPA/US@EPA[] From: "Rodgers, William"

Sent: Fri 5/14/2010 3:35:03 PM
Subject: VW Test Waiver Requests

william.rodgers@vw.com

Hello Jim,

As a heads up, I have submitted 12 VW test waiver requests this morning representing two carryover 2.5L test groups. Each includes all new tests as the result of a newly designed replacement for Jetta Sedan models and revised manual transmission gearing.

Let me know if you have any questions.

Thanks,

Bill Rodgers

Engineering and Environmental Office

VOLKSWAGEN Group of America, Inc. Rochester Hills, MI

United States

(248) 754-4219

(248) 754-4207

william.rodgers@vw.com

/__\. (o_l_/o)

To: Linc Wehrly/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA[]; im

Snyder/AA/USEPA/US@EPA[]

From: Ex. 7

Sent: Mon 5/17/2010 1:32:20 PM

Subject: Road Load Determination Meeting

Hello Linc and Jim:

As we have discussed, Volkswagen representatives are scheduled to meet with you on Wednesday, June 2, 2010 at 09:30 to discuss road load determination and the responses to the questions provided in your email of April 2, 2010. Our representatives are preparing a formal presentation and formulating the responses to the questionnaire.

I had previously stated that one or two people from our local office and another two or three from Germany would attend. Considering the travel time and distance for our German colleagues, I would like to know whether it would be acceptable to have them join the meeting by telephone. I would still attend in person and provide the presentation materials, with the technical experts engaged in the dialogue. I am able to set up a conference call-in number and access code.

I would appreciate your thoughts on this. Please recognize that this request should not be construed as minimizing the importance of this meeting. We look forward to a detailed discussion.

Best regards,



Volkswagen Group of America, Inc.



Ex. 7

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

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Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

eonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

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N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=Maria Peralta/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 5/17/2010 2:41:52 PM

Subject: Road Load Determination Meeting w/ VW

Hello Linc and Jim:

As we have discussed, Volkswagen representatives are scheduled to meet with you on Wednesday, June 2, 2010 at 09:30 to discuss road load determination and the responses to the questions provided in your email of April 2, 2010. Our representatives are preparing a formal presentation and formulating the responses to the questionnaire.

I had previously stated that one or two people from our local office and another two or three from Germany would attend. Considering the travel time and distance for our German colleagues, I would like to know whether it would be acceptable to have them join the meeting by telephone. I would still attend in person and provide the presentation materials, with the technical experts engaged in the dialogue. I am able to set up a conference call-in number and access code.

I would appreciate your thoughts on this. Please recognize that this request should not be construed as minimizing the importance of this meeting. We look forward to a detailed discussion.

Best	regards,
Len	

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

eonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=Maria Peralta/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 5/17/2010 2:41:52 PM

Subject: Road Load Determination Meeting w/ VW

Hello Linc and Jim:

As we have discussed, Volkswagen representatives are scheduled to meet with you on Wednesday, June 2, 2010 at 09:30 to discuss road load determination and the responses to the questions provided in your email of April 2, 2010. Our representatives are preparing a formal presentation and formulating the responses to the questionnaire.

I had previously stated that one or two people from our local office and another two or three from Germany would attend. Considering the travel time and distance for our German colleagues, I would like to know whether it would be acceptable to have them join the meeting by telephone. I would still attend in person and provide the presentation materials, with the technical experts engaged in the dialogue. I am able to set up a conference call-in number and access code.

I would appreciate your thoughts on this. Please recognize that this request should not be construed as minimizing the importance of this meeting. We look forward to a detailed discussion.

Best	regards,
Len	

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Kata, Leonard"

Sent: Mon 5/17/2010 2:57:58 PM

Subject: Accepted: Road Load Determination Meeting w/ VW

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 5/24/2010 8:26:02 PM

Subject: Q& tests

Bob, can you send us a note saying VW accepts the FE values of the Audi Q7 EPA tests for our records?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Hart, Robert (VWoA)"

Sent: Tue 5/25/2010 12:50:58 PM

Subject: RE: Q& tests

Audi accepts the fuel economy values from the confirmatory tests for vehicle B3UG-TAQ.

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

Phone: (248) 754-4224

Fax: (248) 754-4207

E-mail: robert.hart@vw.com

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Monday, May 24, 2010 4:26 PM

To: Hart, Robert (VWoA)

Subject: Q& tests

Bob, can you send us a note saying VW accepts the FE values of the Audi Q7 EPA tests for our records?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division

United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

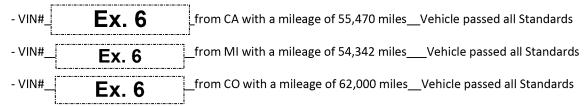
To:
Ex. 7
When are these test groups required to be completed? What procurement area are you using for the high mileage vehicles?
Ex. 7
California Environmental Protection Agency
Air Resources Board
In-Use Compliance Section
Ex. 7
From: Ex. 7 Sent: Tuesday, May 25, 2010 7:02 AM To: Ball.Joel@epamail.epa.gov; Good.David@epamail.epa.gov; Ex. 7 @ARB Cc: Ex. 7 Subject: VWGoA - Useful Life Vehicles for MY2005
Hello Gentlemen,
We have had difficulties to find the full useful life vehicles for three test groups in MY2005.
For the procurement of the vehicles is our contractor California-Environmental-Engineering (CEE) responsible.
The following describes the actual situation of the test groups involved.

VW FOIA, EPA 06/20/2017 2017-FFP_001182

- Test-Group 5VWXT03.2225

There are 4 vehicles to be tested in this group, 2 vehicles warm and 2 cold weather.

So far we have tested following vehicles:



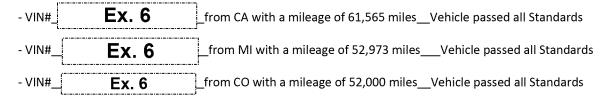
In order to get the 4th vehicle with a odometer over 90,000 miles for the full useful life test, we already have sent a 4th mailing out without getting a successful respond.

The highest mileage that we have on a vehicle available for this test group at the moment is 81,000 miles.

- Test-Group 5VWXV02.0223

There are 4 vehicles to be tested in this group.

So far we have tested following vehicles:



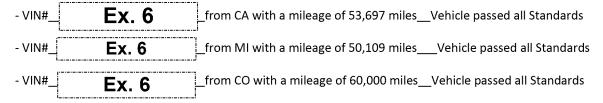
In order to get the 4th vehicle with a odometer over 90,000 miles for the full useful life test, we already have sent a 3rd mailing out without getting a successful respond.

The highest mileage that we have on a vehicle available for this test group at the moment is 73,200 miles.

- Test-Group 5VWXV02.0224

There are 4 vehicles to be tested in this group.

So far we have tested following vehicles:



In order to get the 4th vehicle with a odometer over 90,000 miles for the full useful life test, we already have sent a 4th mailing out without getting a successful respond.

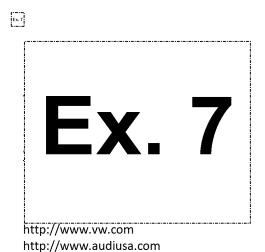
The highest mileage that we have on a vehicle available for this test group at the moment is 61,000 miles.

At this moment we would ask you to accept for the above mentioned test groups for the full useful life tests the vehicles with the highest mileage available at present.

Please let me know as soon as you can what your decision/advise is concerning this matter. If I don't hear from you otherwise by beginning of next week I'll assume that you agree with me procuring and testing the vehicles with the mileage mentioned above.

Thank you for your understanding and support,





To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Wed 5/26/2010 11:32:48 AM VW Group: Audi A8 - B3UH-DAQ - Results Accepted
Hello Jim,	
	received the results for the Audi A8 (B3UH-DAQ) in Verify. Audi has accepted the results. I e Mazaitis to release the car this morning.
Best regard	ls,
Bob Hart	
Robert Har	t
Engineerin	g and Environmental Office
Volkswage	n Group of America, Inc.
3800 Haml	in Road
Auburn Hill	s, MI 48326
Phone: (24	8) 754-4224
Fax: (248) 7	754-4207
E-mail: rob	ert.hart@vw.com

To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Thur 5/27/2010 6:09:32 PM Supplemental Information for Vehicles Selected for Confirmatory Testing
Hello Jim,	
	aded the required Supplemental Information for Dentley yehicle I.D. DVS 1021 of re 0 and 4 and
	raded the required Supplemental Information for Bentley vehicle I.D. BY61021 cfgs 0 and 4 and e I.D. VW416 80218 cfg 0.
There are a	also shift tables uploaded for the FTP and HFET for VW416 80218.
This VW is Verify.	in an Audi test group and the required shift tables were not listed in the Audi database in
Best regard	ds,
Bob Hart	
Robert Har	t
Engineerin	g and Environmental Office
Volkswage	n Group of America, Inc.
3800 Haml	in Road
Auburn Hil	ls, MI 48326
Phone: (24	8) 754-4224
Fax: (248)	754-4207
E-mail: rob	ert.hart@vw.com

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 5/27/2010 7:05:00 PM

Subject: Re: Supplemental Information for Vehicles Selected for Confirmatory Testing

Thanks for the info. To confirm, are you saying that the shift tables are now in Verify?

I informed the lab to check if it looks okay.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 05/27/2010 02:13 PM

Subject: Supplemental Information for Vehicles Selected for Confirmatory Testing

Hello Jim,

I have uploaded the required Supplemental Information for Bentley vehicle I.D. BY61021 cfgs 0 and 4 and VW vehicle I.D. VW416 80218 cfg 0.

There are also shift tables uploaded for the FTP and HFET for VW416 80218.

This VW is in an Audi test group and the required shift tables were not listed in the Audi database in Verify.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: Jim Snyder/AA/USEPA/US@EPA[]
From: "Hart, Robert (VWoA)"
Sent: Fri 5/28/2010 12:07:36 PM
Subject: RE: Supplemental Information for Vehicles Selected for Confirmatory Testing

Hello Jim,

In order for the lab to have the correct manual transmission shift tables, Verify has a section under the Confirmatory Test Decision page where new mfr. shift tables can be uploaded. This doesn't happen very often because most new cars use existing shift tables that have been in the lab database since CFEIS.

Except for the standard EPA ones, shift tables are manufacturer specific. In this case the (VW) shift tables existed, just not is the Audi specific section of the database.

I downloaded the required VW shift tables using my Volkswagen login, made the necessary modifications to the shift table reports to turn them into input files and resubmitted them through my Audi login.

Best regards,

Bob Hart

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Thursday, May 27, 2010 3:05 PM

To: Hart, Robert (VWoA)

Subject: Re: Supplemental Information for Vehicles Selected for Confirmatory Testing

Thanks for the info. To confirm, are you saying that the shift tables are now in Verify?

I informed the lab to check if it looks okay.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946

snyder.j	im@epa.gov
From:	"Hart, Robert (VWoA)" <robert.hart@vw.com></robert.hart@vw.com>
То:	Jim Snyder/AA/USEPA/US@EPA
Date:	05/27/2010 02:13 PM
Subject:	Supplemental Information for Vehicles Selected for Confirmatory Testing
Hello Jir	n,
	ploaded the required Supplemental Information for Bentley vehicle I.D. BY61021 cfgs 0 and 4 and VW I.D. VW416 80218 cfg 0.
	re also shift tables uploaded for the FTP and HFET for VW416 80218. Is in an Audi test group and the required shift tables were not listed in the Audi database in Verify.
Best reg	gards,
Bob Har	t
Robert l	Hart
Enginee	ring and Environmental Office
3800 Ha	ngen Group of America, Inc. Imlin Road Hills, MI 48326
Fax: (24	(248) 754-4224 8) 754-4207 robert.hart@vw.com

2

VW FOIA, EPA

To: Jim Snyder/AA/USEPA/US@EPA; Chris Nevers/AA/USEPA/US@EPA; Joel Ball/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA:Maria Peralta/AA/USEPA/US@EPA[]: hris Nevers/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;Maria Peralta/AA/USEPA/US@EPA[]; oel Ball/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;Maria Peralta/AA/USEPA/US@EPA[]; inc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;Maria Peralta/AA/USEPA/US@EPA[]; artin Reineman/AA/USEPA/US@EPA; Stephen Healy/AA/USEPA/US@EPA; Tom Anderson/AA/USEPA/US@EPA:Maria Peralta/AA/USEPA/US@EPA[]; tephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;Maria Peralta/AA/USEPA/US@EPA[]; om Anderson/AA/USEPA/US@EPA;Maria Peralta/AA/USEPA/US@EPA[]; aria Peralta/AA/USEPA/US@EPA[]

From: "Kata, Leonard"

Sent: Tue 6/1/2010 7:50:38 PM

Subject: RE: Invitation: Road Load Determination Meeting w/ VW (Jun 2 09:30 AM EDT in AA-

C126/AA-OTAQ-OFFICE@EPA)

EPA Road Load Determination Meeting.pdf

leonard.kata@vw.com

To all:

Attached is an advance copy of the presentation that VW will discuss tomorrow during our meeting on road load determination. Several participants will join by telephone from Germany, so it would be appreciated if a speaker telephone is available. The call-in details are provided below.

Dr. Christoph Kohnen and I will attend the meeting in person. We expect the following participants, representing Volkswagen and Audi to join by telephone:

Mr. Kai Behlau

Mr. Stuart Johnson

Mr. Andreas Kopp

Mr. Juergen Peter

Mr. Alexander Riedel

Dr. Klaus Rohde-Brandenburger

Dr. Holger Tiedt

Audio Conference Information:

Bridge Name: vwoaa500

Participant Code: Ex. 6
Bridge Dial-in Number: [Ex.6]
Best regards,
Leonard W. Kata
Manager, Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com
< <epa determination="" load="" meeting.pdf="" road="">></epa>
Original Appointment From: Jim Snyder/AA/USEPA/US Sent: Monday, May 17, 2010 10:42 AM To: Jim Snyder/AA/USEPA/US; Nevers.Chris@epamail.epa.gov; Ball.Joel@epamail.epa.gov; Kata, Leonard; Wehrly.Linc@epamail.epa.gov; Reineman.Martin@epamail.epa.gov; Healy.Stephen@epamail.epa.gov; Anderson.Tom@epamail.epa.gov Cc: Peralta.Maria@epamail.epa.gov Subject: Invitation: Road Load Determination Meeting w/ VW (Jun 2 09:30 AM EDT in AA-C126/AA-OTAQ-OFFICE@EPA) When: Wednesday, June 02, 2010 9:30 AM-11:30 AM (GMT-05:00) Eastern Time (US & Canada). Where: C126
Invitation: Road Load Determination Meeting w/ VW
06/02/2010 -
Chair: Jim Snyder/AA/USEPA/US
Sent By: Snyder.Jim@epamail.epa.gov
Location: C126

Rooms:
AA-C126/AA-OTAQ-OFFICE@EPA
Snyder.Jim@epamail.epa.gov Jim Snyder has invited you to a meeting. You have not yet responded.
Required: Chris Nevers/AA/USEPA/US@EPA, Joel Ball/AA/USEPA/US@EPA, Leonard.Kata@vw.com, Linc Wehrly/AA/USEPA/US@EPA, Martin Reineman/AA/USEPA/US@EPA, Stephen Healy/AA/USEPA/US@EPA, Tom Anderson/AA/USEPA/US@EPA
Optional: Maria Peralta/AA/USEPA/US@EPA
Description
Hello Linc and Jim:
As we have discussed, Volkswagen representatives are scheduled to meet with you on Wednesday, June 2, 2010 at 09:30 to discuss road load determination and the responses to the questions provided in your e-mail of April 2, 2010. Our representatives are preparing a formal presentation and formulating the responses to the questionnaire.
I had previously stated that one or two people from our local office and another two or three from Germany would attend. Considering the travel time and distance for our German colleagues, I would like to know whether it would be acceptable to have them join the meeting by telephone. I would still attend in person and provide the presentation materials, with the technical experts engaged in the dialogue. I am able to set up a conference call-in number and access code.
I would appreciate your thoughts on this. Please recognize that this request should not be construed as minimizing the importance of this meeting. We look forward to a detailed discussion.
Best regards, Len

<< File: ATT244576.htm >> << File: c104150.ics >> << File: ecblank.gif >> << File: pic00987.gif >>

3

VW FOIA, EPA

To: Ex. 7 @vw.com]

Cc: ||
Bcc: ||
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Tue 6/1/2010 8:28:21 PM
Subject: RE: Invitation: Road Load Determination Meeting w/ VW (Jun 2 09:30 AM EDT in AA-C126/AA-OTAQ-OFFICE@EPA)

Ex. 7 @vw.com

We're scheduled for the big room by the lobby so phone shouldn't be a problem.

I've had some confusion getting the projector system going in that room so I'll grab a backup unless you're bringing one,

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: **Ex. 7** @vw.com>

To: "Jim Snyder/AA/USEPA/US@EPA, Chris Nevers/AA/USEPA/US@EPA, Joel Ball/AA/USEPA/US@EPA, Linc Wehrly/AA/USEPA/US@EPA, Martin Reineman/AA/USEPA/US@EPA, Stephen Healy/AA/USEPA/US@EPA, Tom Anderson/AA/USEPA/US@EPA, Maria

Peralta/AA/USEPA/US@EPA
Date: 06/01/2010 03:53 PM

Subject: RE: Invitation: Road Load Determination Meeting w/VW (Jun 2 09:30 AM EDT in AA-C126/AA-

OTAQ-OFFICE@EPA)

To all:

Attached is an advance copy of the presentation that VW will discuss tomorrow during our meeting on road load determination. Several participants will join by telephone from Germany, so it would be appreciated if a speaker telephone is available. The call-in details are provided below.

Ex. 7 and I will attend the meeting in person. We expect the following participants, representing Volkswagen and Audi to join by telephone:

Ex. 7

Audio Conference Information:

Non-Responsive

Best regards,

Ex. 7

Ex. 7
Engineering and Environmental Uffice
Volkswagen Group of America, Inc.
Ex. 7
E-Mail: Ex. 7 @vw.com
< <epa determination="" load="" meeting.pdf="" road="">></epa>
Original Appointment
From: Jim Snyder/AA/USEPA/US
Sent: Monday, May 17, 2010 10:42 AM
To: Jim Snyder/AA/USEPA/US; Nevers.Chris@epamail.epa.gov; Ball.Joel@epamail.epa.gov; Ex. 7
Wehrly.Linc@epamail.epa.gov; Reineman.Martin@epamail.epa.gov; Healy.Stephen@epamail.epa.gov; Anderson.Tom@epamail.epa.gov
Cc: Peralta.Maria@epamail.epa.gov
Subject: Invitation: Road Load Determination Meeting w/ VW (Jun 2 09:30 AM EDT in AA-C126/AA-OTAQ-
OFFICE@EPA)
When: Wednesday, June 02, 2010 9:30 AM-11:30 AM (GMT-05:00) Eastern Time (US & Canada).
Where: C126
Invitation: Road Load Determination Meeting w/ VW
06/02/2010 -
Chair: Jim Snyder/AA/USEPA/US
Jilli Silydei / AA/ OSE / A/ OS
Sent By: Snyder.Jim@epamail.epa.gov
Location:
C126
Rooms:
AA-C126/AA-OTAQ-OFFICE@EPA
Snyder.Jim@epamail.epa.gov Jim Snyder has invited you to a meeting. You have not yet responded.
Required:
Chris Nevers/AA/USEPA/US@EPA, Joel Ball/AA/USEPA/US@EPA, Ex. 7 @vw.com, Linc Wehrly/AA/USEPA/US@EPA, Martin Reineman/AA/USEPA/US@EPA, Stephen Healy/AA/USEPA/US@EPA, Tom Anderson/AA/USEPA/US@EPA
Optional:
2

VW FOIA, EPA 2017-FFP_001195 06/20/2017

Maria Peralta/AA/USEPA/US@EPA
Description
Hello Linc and Jim:

As we have discussed, Volkswagen representatives are scheduled to meet with you on Wednesday, June 2, 2010 at 09:30 to discuss road load determination and the responses to the questions provided in your e-mail of April 2, 2010. Our representatives are preparing a formal presentation and formulating the responses to the questionnaire.

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Best rega	ards,
Best rega	
_ <<	File: ATT244576.htm >> << File: c104150.ics >> << File: ecblank.gif >> << File: pic00987.gif >
[attachm	nent "EPA Road Load Determination Meeting.pdf" deleted by Jim Snyder/AA/USEPA/US]

To: Jim Snyder/AA/UŞEPA/US@EPA[]
From: Ex. 7
Sent: Tue 6/1/2010 8:52:25 PM
Subject: RE: Invitation: Road Load Determination Meeting w/ VW (Jun 2 09:30 AM EDT in AA-
Non-Responsive
Ex. 7
Jim –
Jiiii —
I will bring a small projector.
·
Ex. 7
Franci Crividas lina @ anamail ana may fracilta Crividas lina @ anamail ana may l
From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]
Sent: Tuesday, June 01, 2010 4:28 PM
To: Ex. 7
Subject: RE: Invitation: Road Load Determination Meeting w/ VW (Jun 2 09:30 AM EDT in Non-Responsive
Non-Responsive

Non-Responsive

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From:	
	Ex. 7
To:	
	Jim Snyder/AA/USEPA/US@EPA, Chris Nevers/AA/USEPA/US@EPA, Joel
Ball/AA	/USEPA/US@EPA, Linc Wehrly/AA/USEPA/US@EPA, Martin Reineman/AA/USEPA/US@EPA,
Stepher	n Healy/AA/USEPA/US@EPA, Tom Anderson/AA/USEPA/US@EPA, Maria
Peralta/	'AA/USEPA/US@EPA
Date:	
	06/01/2010 03:53 PM

VW FOIA, EPA 06/20/2017 2017-FFP_001197

Subject:

RE: Invitation: Road Load Determination Meeting w/ VW (Jun 2 09:30 AM EDT in Non-Responsive

Non-Responsive

To all:

Attached is an advance copy of the presentation that VW will discuss tomorrow during our meeting on road load determination. Several participants will join by telephone from Germany, so it would be appreciated if a speaker telephone is available. The call-in details are provided below.

and I will attend the meeting in person. We expect the following participants, representing Volkswagen and Audi to join by telephone:

Ex. 7

Audio Conference Information:

Non-Responsive

Best regards,

Volkswagen Group of America, Inc.



<<EPA Road Load Determination Meeting.pdf>>

Original Appointment
From: Jim Snyder/AA/USEPA/US
Sent: Monday, May 17, 2010 10:42 AM
To: Jim Snyder/AA/USEPA/US; Nevers.Chris@epamail.epa.gov; Ball.Joel@epamail.epa.gov; Ex. 7
Wehrly.Linc@epamail.epa.gov; Reineman.Martin@epamail.epa.gov; Healy.Stephen@epamail.epa.gov;
Anderson.Tom@epamail.epa.gov
Cc: Peralta.Maria@epamail.epa.gov
Subject: Invitation: Road Load Determination Meeting w/ VW (Jun 2 09:30 AM EDT in Non-Responsive
When: Wednesday, June 02, 2010 9:30 AM-11:30 AM (GMT-05:00) Eastern Time (US & Canada).
,========
Where: LND-Responsive
Invitation: Road Load Determination Meeting w/ VW
6 1/ 1
06/02/2010 -
Chair:
Jim Snyder/AA/USEPA/US
Sent By:
Snyder.Jim@epamail.epa.gov
Location:
Non-Responsive
_
Rooms:
Non-Responsive
Snyder.Jim@epamail.epa.gov
Jim Snyder has invited you to a meeting. You have not yet responded.
Required:
Chris Nevers/AA/USEPA/US@EPA, Joel Ball/AA/USEPA/US@EPA, Ex. 7 Linc
Wehrly/AA/USEPA/US@EPA, Martin Reineman/AA/USEPA/US@EPA, Stephen Healy/AA/USEPA/US@EPA, Tom
Anderson/AA/USEPA/US@EPA
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Optional:
Maria Peralta/AA/USEPA/US@EPA

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As we have discussed, Volkswagen representatives are scheduled to meet with you on Wednesday, June 2, 2010 at 09:30 to discuss road load determination and the responses to the questions provided in your e-mail of April 2, 2010. Our representatives are preparing a formal presentation and formulating the responses to the questionnaire.

I had previously stated that one or two people from our local office and another two or three from Germany would attend. Considering the travel time and distance for our German colleagues, I would like to know whether it would be acceptable to have them join the meeting by telephone. I would still attend in person and provide the presentation materials, with the technical experts engaged in the dialogue. I am able to set up a conference call-in number and access code.

I would appreciate your thoughts on this. Please recognize that this request should not be construed as minimizing the importance of this meeting. We look forward to a detailed discussion.

Best regards,



<< File: ATT244576.htm >> << File: c104150.ics >> << File: ecblank.gif >> << File: pic00987.gif >> [attachment "EPA Road Load Determination Meeting.pdf" deleted by Jim Snyder/AA/USEPA/US]

To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Fri 6/4/2010 7:33:31 PM VW Group: More Applications / Certificate Requests Submitted			
Subject.	VVV Group, Wore Applications / Certificate Requests Submitted			
Hello Jim,				
I've been busy. There are Certificate requests for test groups: BADXT03.0TLF (1) / BADXV02.03UA (3) submitted. They all have the same SOP (this week) and same priority.				
Whatever you can do to get them turned around quickly is greatly appreciated.				
Best regards,				
Bob Hart				
Robert Hart				
Engineering and Environmental Office				
Volkswage	n Group of America, Inc.			
3800 Hamlin Road				
Auburn Hills, MI 48326				
Phone: (24	8) 754-4224			
Fax: (248) 754-4207				
E-mail: robert.hart@vw.com				

To: Ex. 7 @vw.com]
Cc: []
Bcc: []
From: CN=Jim Snyder/OU=AA/O=USEPA/C=US
Sent: Tue 6/8/2010 4:22:16 PM

Subject: Re: Response to E10 Fuel Question

Thanks, can find out if they mix it in as a batch in the lab or by adding both into the test vehicle's fuel tank?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From:	Ex. 7	@vw.com>	
To:	Jim Snyder/AA/USEPA/US@EPA		
Cc:	Ex. 7	@vw.com>	
Date:	06/08/2010 07:35 AM		
Subject	Pernonce to F10 Fuel Oue	stion	

Hello Jim,

Here is the response I received from the cert engineer to your question about the blend procedure for the E10 fuel in the flex-fuel Bentley.

The E10 was "splash blended" using Tier2 (9 PSI) test fuel and E85 fuel in our test facility.

Let me know if this answer is sufficient.

Best regards,



Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326



To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 6/8/2010 10:30:36 PM

Subject: missing test data

Bob, for test group BADXV05.2LR8 BI see a test # listed for 50F test but no emission data. Looks like its missing.

Test Number BADX10006239 Exhaust/Evaporative Test Number Link

Test Procedure 52 - Fed. fuel 50 F exh. Test Fuel Type 61 - Tier 2 Cert Gasoline

Test Date 2009-08-20 DF Type Mfr. Determined

4WD Dyno No State of Charge Delta

MFR Test Comment 4k FED. FUEL 50'F FTP - Tested as AUDI R8 SPYDER CONVERTIBLE 6 spd. autom.

2 dr. EDV - ETW: 4250

None

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov From: "Hart, Robert (VWoA)" Sent: Wed 6/9/2010 1:14:59 PM Subject: RE: missing test data Hello Jim, The test results for the 50'F FTP were in the database, I just forgot to put standards for it in the testgroup submission file. Results won't be listed in the Cert Summary Info Report without them. I have corrected it and will upload the corrected application as soon as I have processed it. We received the OBD approval for the Q7 diesel last night, so that is my priority before the test group above. There will be two 3.0l diesel applications. The one ending in 3UG (Audi Q7 - LDT4) is the priority. Except for the actual tests and LDT3 designation for the Touareg, the two diesel application are basically the same. Best regards, **Bob Hart** Robert Hart Engineering and Environmental Office Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4224

To:

Fax: (248) 754-4207

Jim Snyder/AA/USEPA/US@EPA[]

E-mail: robert.hart@vw.com

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Tuesday, June 08, 2010 6:31 PM

To: Hart, Robert (VWoA) Subject: missing test data

Bob, for test group BADXV05.2LR8 BI see a test # listed for 50F test but no emission data. Looks like its missing.

Test Number BADX10006239 Exhaust/Evaporative Test Number Link

Test Procedure 52 - Fed. fuel 50 F exh. Test Fuel Type 61 - Tier 2 Cert Gasoline

Test Date 2009-08-20 DF Type Mfr. Determined

4WD Dyno No State of Charge Delta

MFR Test Comment 4k FED. FUEL 50'F FTP - Tested as AUDI R8 SPYDER CONVERTIBLE 6 spd. autom. 2 dr. EDV -

ETW: 4250 None

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

To: Cc: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Rodgers, William" [William.Rodgers@vw.com] "Hart, Robert (VWoA)" Tue 6/15/2010 7:21:08 PM VW Group: Applications and Certificate Requests Submitted
oubject.	VVV Group. Applications and Gertificate Requests Submitted
Hello Jim,	
2011 VW to	a "heads-up" for a couple of certificate requests. The application and certificate request for MY est group BVWXV02.0MPI has been submitted earlier today. Submissions for test group 5259 will be completed by Bill Rodgers by Wednesday morning at the latest.
ъ.	
Best regard	is,
Bob Hart	
Robert Har	t
Engineerin	g and Environmental Office
Volkswage	n Group of America, Inc.
3800 Haml	in Road
Auburn Hil	ls, MI 48326
Phone: (24	8) 754-4224
Fax: (248) 7	754-4207

1

To: []

Cc: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]; Rodgers, William"

[William.Rodgers@vw.com]

Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 6/15/2010 9:29:23 PM

Subject: Re: VW Group: Applications and Certificate Requests Submitted

Sorry, I should have clarified that I was referring to the Bentley FFV confirmatory testing.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: Jim Snyder/AA/USEPA/US

To: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>
Cc: "Rodgers, William" <William.Rodgers@vw.com>

Date: 06/15/2010 04:42 PM

Subject: Re: VW Group: Applications and Certificate Requests Submitted

Okay.

Ben Haynes in the lab reminded me that you need give us instructions if you want to any "learning procedure" performed between test fuels after we drain and fill different fuels on the confirmatory vehicle.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" < Robert. Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Cc: "Rodgers, William" < William.Rodgers@vw.com>

Date: 06/15/2010 03:21 PM

Subject: VW Group: Applications and Certificate Requests Submitted

Hello Jim,

This is just a "heads-up" for a couple of certificate requests. The application and certificate request for MY

2011 VW test group BVWXV02.0MPI has been submitted earlier today. Submissions for test group BVWXV02.5259 will be completed by Bill Rodgers by Wednesday morning at the latest.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: CN=David Good/OU=AA/O=USEPA/C=US@EPA[] Cc: Ex. 6 N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Mary Manners/OU=AA/O=USEPA/C=US@EPA;richard.thomas@vw.com;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;richard.thomas@vw.com;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;richard.thomas@vw.com;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA; Ex. 6 ichard.thomas@vw.com;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA; Ex. 6 ichard.thomas@vw.com;CN=Robert Peavyhouse/OU=AA/O=USEPA/C=US@EPA; Ex. 6 Ex. 6 erifyhelp@csc.com[] From: CN=Kassem Abbas/OU=AA/O=USEPA/C=US Sent: Wed 6/16/2010 7:51:48 PM Subject: Re: Fw: Business Rule Relaxation for Data Substitution Five Cycle Method Labels -
Please work with VW to relax the business rule when they process these six labels
CSC, I approve relaxing the business rule. Thanks
Kassem Abbas IT Specialist Office of Transportation and Air Quality U.S. Environmental Protection Agency (734) 214 4337 abbas.kassem@epa.gov
From: David Good/AA/USEPA/US To: verifyhelp@csc.com Cc: Kassem Abbas/AA/USEPA/US@EPA, Robert Peavyhouse/AA/USEPA/US@EPA, Mary Manners/AA/USEPA/US@EPA, Ex. 6 richard.thomas@vw.com, Jim Snyder/AA/USEPA/US@EPA Date: 06/16/2010 03:07 PM Subject: Fw: Business Rule Relaxation for Data Substitution Five Cycle Method Labels - Please work with VW to relax the business rule when they process these six labels
Ex. 6 and all,
Heads up
Please try to work with VW so that this temporary relaxing of the business rule goes as smoothly as possible. VW especially needs the labels for a newly redesigned 2011 Jetta model which VW executives will be introducing at an auto show this weekend or so (so it needs FE Label values in Verify).
It is OK with me for CSC to relax the business rule for these models.
[There will be quite a few more of these cases (for VW and other manufacturers) thru the summer.]
Thanks
Forwarded by David Good/AA/USEPA/US on 06/16/2010 02:56 PM
From: "Thomas, Richard" <richard.thomas@vw.com></richard.thomas@vw.com>

VW FOIA, EPA 06/20/2017 2017-FFP_001209

To: David Good/AA/USEPA/US@EPA

Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>, "Kata, Leonard" <Leonard.Kata@vw.com>

06/16/2010 02:47 PM Date:

Subject: FW: Business Rule Relaxation for Data Substitution Five Cycle Method Labels

Hi Dave;

We have at least six more 2011 general fuel economy labels I will have to submit to Verify this week for which data substitution will be used for a 5-cycle label. The business rule will not allow me to do this without special after hours handling and with assistance from the Verify help desk. Did you make any progress to rectify this issue?

Best regards, Richard

From: Thomas, Richard

Sent: Thursday, June 10, 2010 3:43 PM To: Good.David@epamail.epa.gov

Cc: Kata, Leonard; Kohnen, Christoph (VWGoA)

Subject: Business Rule Relaxation for Data Substitution Five Cycle Method Labels

Hello Dave;

It has become a difficult after hours operation and task for me to submit some of our 2011 general fuel economy labels due to the current business rule which prevents us from entering an index if we have more than one vehicle ID within the five tests grouping when we make data substitution from worse case Cold Co and SC03 tests. The Verify help desk has us call them at 5 o'clock and he in turn must contact the DBA to turn off this business rule before I enter the indexes. Then, after several minutes we must check the in box to see if the indexes have been accepted and then notify the help desk again so they can turn the business rule back on.

I will have anywhere from 10 to 15 more 2011 indexes where we will substitute worse case Cold CO and SC03 tests for a general label calculations. I understand that this was to be changed with an EPA request of the contractor back in December 2009. We are doing everything to comply with the intent of the 5-cycle method for the general fuel economy labeling rule and we have to do it after normal business hours. The Verify system was intended to make our data entry more productive and streamlined and this business rule is not helping. Is there some way we can have this business rule turned off without making it too difficult for the contractor.

Best regards, Richard E. Thomas VOLKSWAGEN GROUP OF AMERICA, INC. 3800 Hamlin Road Auburn Hills, MI 48326 Engineering and Environmental Office (EEO) Phone: 248 754-4213

Fax: 248 754-4207

Richard.Thomas@VW.com

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Hart, Robert (VWoA)"
Sent: Mon 6/21/2010 7:49:22 PM

Subject: VW Group: Certificate Request Submitted and Remaining Certification for MY 2011

Hello Jim,

I submitted certificate request for carryover test group BVWXV02.03SA.

Here's what's left for the Volkswagen Group initial certification for MY 2011.

Audi test group:

BADXV04.2375 – carryover application to be submitted sometime in the next two to three weeks

Bentley test group:

BBEXV06.84LA – currently waiting for confirmatory test decision (Mulsanne)

Lamborghini Test Group:

BNLXV06.5L83 - waiting for OBD approval

Volkswagen test groups:

BVWXV02.0U5N – test waiver requests coming this or next week (new Jetta model in this TDI (diesel) test group)

BVWXV02.03PA – test waiver request coming for CC model with manual transmission this week.

BVWXV03.6U46 – carryover test group to be submitted sometime in this week – waiting for OBD approval

BVWXT03.6U76 – carryover test group to be submitted sometime in the next four weeks

BVWXT03.0HEV – VW's first hybrid – waiting for OBD approval and test results – expected SOP in September

Best regards,
Bob Hart
Robert Hart
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4224
Fax: (248) 754-4207

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 6/21/2010 8:35:48 PM

Subject: Re: VW Group: Certificate Request Submitted and Remaining Certification for MY

2011

Thanks for the summary.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 06/21/2010 03:50 PM

Subject: VW Group: Certificate Request Submitted and Remaining Certification for MY 2011

Hello Jim,

I submitted certificate request for carryover test group BVWXV02.03SA.

Here's what's left for the Volkswagen Group initial certification for MY 2011.

Audi test group:

BADXV04.2375 - carryover application to be submitted sometime in the next two to three weeks

Bentley test group:

BBEXV06.84LA - currently waiting for confirmatory test decision (Mulsanne)

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BNLXV06.5L83 - waiting for OBD approval

Volkswagen test groups:

BVWXV02.0U5N – test waiver requests coming this or next week (new Jetta model in this TDI (diesel) test group)

BVWXV02.03PA – test waiver request coming for CC model with manual transmission this week.

BVWXV03.6U46 - carryover test group to be submitted sometime in this week - waiting for OBD approval

BVWXT03.6U76 - carryover test group to be submitted sometime in the next four weeks

BVWXT03.0HEV – VW's first hybrid – waiting for OBD approval and test results – expected SOP in

September

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

Subject: VVV Group. Certificate Request for MT 2011 VVV Test GIP. BVVVXV03.6046 Submitted
Hello Jim,
Just a "heads up" for a certificate request submitted for MY 2011 VW Test Grp: BVWXV03.6U46.
Best regards,
Bob Hart
Robert Hart
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4224
Fax: (248) 754-4207

Jim Snyder/AA/USEPA/US@EPA[]

"Hart, Robert (VWoA)"

E-mail: robert.hart@vw.com

Wed 6/23/2010 3:23:31 PM

To:

From:

Sent:

To:	Linc Wehrly/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA[]; in
Snyder/A/	/USEPA/US@EPA[]
Cc:	Ex. 7
From:	LA. /
Sent:	Fri 6/25/2010 8:23:29 PM

Subject: Meeting to Discuss GHG Calculation Procedure

Hello Linc and Jim:

As mentioned during our recent meeting on road load determination, VW would like to meet with you to discuss our initial attempt at some of the compliance calculations for the GHG rule.

Our suggestion is to begin with the Early Credit Calculation for CO2 (40 CFR 86.1867-12(a)). We will present you with our understanding of the rules pertaining to the four pathway approaches and the input data necessary to accomplish the calculations. We will follow with presentation of an example of the early CO2 credit calculation and comparison of the pathway results.

My proposal would be to meet on Thursday, July 1, 2010 at 09:30, provided that you are available. If not, please let me know what your schedules may allow.

Best regards,



Volkswagen Group of America, Inc.



Se	o: om: ent: ubject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Mon 6/28/2010 8:07:52 PM Another Confirmatory Test Waiver Request
He	llo Jim,	
Jus	st anoth	er "heads-up" for a test waiver request – VW Test Group BVWXV02.03PA (BIN 3 / LEVII SULEV).
We're just adding a manual 6 speed VW CC model to the test group before certification. This is not a new worst case. It's just 5-cycle fuel economy tests. This configuration already exists in a BIN 5 / LEVII ULEV test group.		
Be	st regar	ds,
Во	b Hart	
Ro	bert Hai	rt
Enį	gineerin	g and Environmental Office
Vo	lkswage	en Group of America, Inc.
380	00 Ham	lin Road
Au	burn Hil	lls, MI 48326
DŁ	ono: /2/	19) 754 4224
	·	754-4224
		754-4207
E-r	nail: rob	pert.hart@vw.com

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 6/28/2010 8:38:16 PM

Subject: Re: Another Confirmatory Test Waiver Request

Thanks for the note. Saves me time sorting it out.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 06/28/2010 04:08 PM

Subject: Another Confirmatory Test Waiver Request

Hello Jim,

Just another "heads-up" for a test waiver request – VW Test Group BVWXV02.03PA (BIN 3 / LEVII SULEV). We're just adding a manual 6 speed VW CC model to the test group before certification. This is not a new worst case. It's just 5-cycle fuel economy tests. This configuration already exists in a BIN 5 / LEVII ULEV test group.

1

Best regards,

Bob Hart

VW FOIA, EPA

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

Cc: From: Sent: Subject: AM EDT in	Ex. 7 A/USEPA/US@EPA[]; im Snyder/AA/USE Ex. 7 Tue 6/29/2010 5:18:29 PM Invitation: Volkswagen Meeting to Discus		
will be the	ed with Linc Wehrly at EPA, we are scheduled early CO2 credit provisions in the EPA GHG finulation requirements and a sample calculation	nal rule. We intend to pres	sent our understanding

Volkswagen's goal is to gain assurance that the calculation approach being considered and determination

We did not discuss an end time, but from the Volkswagen side, we are flexible on this point.

Best regards,

Volkswagen Group of America, Inc.

Ex. 7

of the appropriate pathway is correct.

To: "Giles, Michael" [michael.giles@vw.com]; inc Wehrly/AA/USEPA/US@EPA;Jim

Snyder/AA/USEPA/US@EPA[]; im Snyder/AA/USEPA/US@EPA[]

Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]

From: "Kata, Leonard"

Sent: Tue 6/29/2010 5:18:29 PM

Subject: Volkswagen Meeting to Discuss Early CO2 Credit Calculations

To all:

As discussed with Linc Wehrly at EPA, we are scheduled to meet on Thursday, July 1, 2010. The subject will be the early CO2 credit provisions in the EPA GHG final rule. We intend to present our understanding of the regulatory requirements and a sample calculation for the four pathway options.

Volkswagen's goal is to gain assurance that the calculation approach being considered and determination of the appropriate pathway is correct.

We did not discuss an end time, but from the Volkswagen side, we are flexible on this point.

Best regards,

Len

Leonard W. Kata
Manager, Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.

Phone: (248) 754-4204 Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Thur 7/8/2010 11:44:10 AM Certificate for Test Group BVWXV02.0U5N - 2.0I Diesel	
Hello Jim,		
Can you ch	eck on the status of the signing of the Certificate for Test Group BVWXV02.0U5N (2.0I Diesel)?	
	we can't get an ARB Executive Order until we submit the EPA Certificate to the ARB and their cedure takes considerably longer.	
Any help y	ou can provide to expedite the process will be greatly appreciated.	
Best regard	ds,	
Bob Hart		
Robert Har	t	
Engineering and Environmental Office		
Volkswage	n Group of America, Inc.	
3800 Hamlin Road		
Auburn Hil	ls, MI 48326	
Phone: (24	8) 754-4224	
Fax: (248)	754-4207	
E-mail: rob	E-mail: robert.hart@vw.com	

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 7/8/2010 2:36:28 PM

Subject: Re: Certificate for Test Group BVWXV02.0U5N - 2.0I Diesel

its issued

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 07/08/2010 07:44 AM

Subject: Certificate for Test Group BVWXV02.0U5N - 2.0l Diesel

Hello Jim,

Can you check on the status of the signing of the Certificate for Test Group BVWXV02.0U5N (2.0I Diesel)? Obviously, we can't get an ARB Executive Order until we submit the EPA Certificate to the ARB and their signing procedure takes considerably longer.

1

Any help you can provide to expedite the process will be greatly appreciated.

Best regards,

Bob Hart

VW FOIA, EPA

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Hart, Robert (VWoA)" **Sent:** Thur 7/8/2010 2:39:53 PM

Subject: RE: Certificate for Test Group BVWXV02.0U5N - 2.0I Diesel

Thanks Jim.

I guess it will just take a little time for it to register in Verify.

Bob

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Thursday, July 08, 2010 10:36 AM

To: Hart, Robert (VWoA)

Subject: Re: Certificate for Test Group BVWXV02.0U5N - 2.0l Diesel

its issued

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From:

"Hart, Robert (VWoA)" < Robert. Hart@vw.com>

To:

Jim Snyder/AA/USEPA/US@EPA

Date:

07/08/2010 07:44 AM

Subject:

Certificate for Test Group BVWXV02.0U5N - 2.0l Diesel

Hello Jim,

Can you check on the status of the signing of the Certificate for Test Group BVWXV02.0U5N (2.0I Diesel)? Obviously, we can't get an ARB Executive Order until we submit the EPA Certificate to the ARB and their signing procedure takes considerably longer.

Any help you can provide to expedite the process will be greatly appreciated.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

To: **Ex. 7** @vw.com[] Cc: []

Bcc:

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 7/8/2010 7:55:50 PM Subject: Fw: SCR Workshop

Ex. 7

As one of the manufacturers with diesel vehicles using SCR aftertreatment, has VW/Audi been following the recent events in California regarding SCR systems? ARB has announced a public workshop for July 20th in regard to diesel engines and vehicles using SCR. It is unclear just how light duty will be impacted, but LD may very well follow trends set by heavy duty resulting from this workshop. EPA may be represented at this workshop. Mercedes may be asked what it would take (timing) to implement some of the proposed HD solutions in LD.

Workshop Mail out:

This Mail-out may be accessed at this link:

http://www.arb.ca.gov/msprog/mailouts/mouts_10.htm#msod

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

Mon 7/12/2010 8:00:45 PM Sent: Subject: Running Change Requires a Revised Certificate Hello Jim, Another "heads up". I just submitted a running change to add the Jetta model to diesel test group BVWXV02.0U5N. A revised certificate is required. Please process it as soon as possible. The only change to the application is the addition of the Jetta model. Everything required has been uploaded. Best regards, **Bob Hart** Robert Hart **Engineering and Environmental Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4224 Fax: (248) 754-4207

To:

From:

Jim Snyder/AA/USEPA/US@EPA[]

"Hart, Robert (VWoA)"

To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Mon 7/19/2010 5:55:36 PM VW Group: Confidential Vehicle Names Question
Hello Jim,	
What is the manufactur	procedure for keeping a vehicle's name confidential until official release by the er?
	on comes from Lamborghini. They want to keep the commercial name of the new Lamborghini I until they release it during the Geneva Auto Show.
	now before I submit the certification documentation. It is still a week or two away, but we need we can plan for whatever is necessary to accomplish it.
	ntroduction into Commerce Date" on the Certificate Request in the Verify System guarantee ormation will be released until that date?
I have alrea	dy talked to ARB. Ex. 7 is checking with management to get their latest policy.
Best regard	s,
Bob Hart	
Robert Har	t .
Engineering	g and Environmental Office
Volkswager	n Group of America, Inc.
3800 Hamli	n Road

Auburn Hills, MI 48326

Phone: (248) 754-4224

Fax: (248) 754-4207

VW FOIA, EPA

E-mail: robert.hart@vw.com

2

06/20/2017

To: Cc: Bcc:	Ex. 7 @vw.com]
From: Sent:	CN=Jim Snyder/OU=AA/O=USEPA/C=US Tue 7/20/2010 3:46:44 PM
Subject:	Re: Lamborghini Catalyst By-Pass Request
Is there sup	oposed to be an attachment of the earlier approvals?
Compliance	Vehicle Group e and Innovative Strategies Division tes Environmental Protection Agency 1946
Date: 07	Ex. 7 @vw.com> m Snyder/AA/USEPA/US@EPA, '[Ex. 7 @arb.ca.gov> 7/20/2010 10:24 AM mborghini Catalyst By-Pass Request
Hello Jim a	nd[Ex.7]
exhaust sys catalysts u year Lambo	y be aware, I submitted documents through VERIFY and EDMS that describe the function of the stem on the LB83x Lamborghini application. This system includes a bypass of the downstream nder extreme operating conditions. The function is analogous to the system from a past model orghini Gallardo which was approved by EPA and ARB. Copies of the old approval documents ed for reference.
-	ed to send a reminder that the request is in the workflow pending agency review. Your review use would be appreciated.
Best regard	ds,
Ex. 7]
	Ex. 7
_	g and Environmental Office n Group of America, Inc.
l	c. 7
E-Mail:	Ex. 7 @vw.com

Thur 7/22/2010 8:07:48 PM Sent: Subject: New Manager In-Use Emission Compliance Volkswagen Group of America sebastian.berenz@vw.com Hello Mrs. Sohacki, I only want you know that I am the new manager in-use emission compliance for the Volkswagen Group of America. I'm the successor of Edward Popa and work deal for the next few years in Rochester Hills. So if you have any issues for me, please let me know. If there are any questions occurring, please do not hesitate to contact me. Best regards. Sebastian Berenz Manager In-Use Emission Compliance **Environmental Engineering Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207 E-Mail: sebastian.berenz@vw.com http://www.volkswagen.com

To:

From:

Lynn Sohacki/AA/USEPA/US@EPA[]

"Berenz, Sebastian"

1

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: []
Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 7/22/2010 8:12:34 PM

Subject: Re: New Manager In-Use Emission Compliance Volkswagen Group of America

sebastian.berenz@vw.com

Hi, Sebastian.

Thanks for the introduction. I look forward to working with you!

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 07/22/2010 04:07 PM

Subject: New Manager In-Use Emission Compliance Volkswagen Group of America

Hello Mrs. Sohacki,

I only want you know that I am the new manager in-use emission compliance for the Volkswagen Group of America. I'm the successor of Edward Popa and work deal for the next few years in Rochester Hills. So if you have any issues for me, please let me know.

If there are any questions occurring, please do not hesitate to contact me.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road

Auburn Hills, MI 48326 Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Jim Snyder/AA/USEPA/US@EPA[]

From: Ex. 7

Sent: Fri 7/30/2010 10:22:03 PM

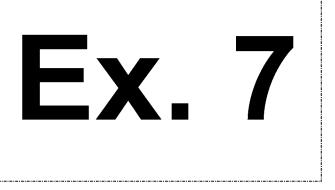
Subject: RE: Lamborghini Catalyst By-Pass Request

2007 request.pdf

Hello Jim:

There were a couple of pages at the end of the scanned document that included prior approvals. I have also attached a copy of the entire document that was ultimately stamped approved by EPA. Please let me know if you need anything else. I would appreciate some information on the status of this request.

Best regards,



Volkswagen Group of America, Inc.

Ex. 7

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov] Sent: Tuesday, July 20, 2010 11:47 AM To: Ex. 7 Subject: Re: Lamborghini Catalyst By-Pass Request
Is there supposed to be an attachment of the earlier approvals?
Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov
From: @vw.com>
To: Jim Snyder/AA/USEPA/US@EPA, Ex. 7 @arb.ca.gov>
Date: 07/20/2010 10:24 AM
Subject: Lamborghini Catalyst By-Pass Request
Hello Jim and Ex. 7
As you may be aware, I submitted documents through VERIFY and EDMS that describe the function of the exhaust system on the LB83x Lamborghini application. This system includes a bypass of the downstream catalysts under extreme operating conditions. The function is analogous to the system from a past model year Lamborghini Gallardo which was approved by EPA and ARB. Copies of the old approval documents are provided for reference.
I just wanted to send a reminder that the request is in the workflow pending agency review. Your review and response would be appreciated.
Best regards,
Ex. 7
2

Ex. 7

Volkswagen Group of America, Inc.

Ex. 7

VOLKSWAGEN of America, Inc.

Mr. Linc Wehrly
Compliance and Innovative Strategies Division
Light-Duty Vehicle Group
U.S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105

Mr. Allen Lyons, Chief Mobile Sources Operations Divisions Haagen-Smit Laboratory P.O. Box 8001 9528 Telstar Avenue El Monte, California 91734-8001 Leonard W. Kata Nome
Team Leader Title
Engineering & Env. Office Department
248-754-4204 Phone
248-754-4207 Fax
Leonard.kata@yw.com E-Moil

March 14, 2006 Date

Volkswagen of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone +1 248 754 5000 Fax +1 248 754 4930

Subject: Lamborghini Murcielago Exhaust System

Gentlemen:

On March 1, 2006, representatives of Automobili Lamborghini, S.p.A. and Volkswagen of America, Inc. participated in a telephone conference call with you to discuss the design and function of the 2007 model year Lamborghini Murcielago exhaust system. In particular, Lamborghini provided details to the agencies regarding bypass valves included in the exhaust system. The intent of the call was to provide an overview of the technical description of the system and to seek feedback from EPA and ARB.

Prior to the call, you were provided with a drawing of the Murcielago exhaust system and a document that addresses the rationale for, and function of the system.

On March 8, 2006, EPA provided telephone confirmation that the agencies had discussed the system and concluded that it is acceptable and does not qualify as a defeat device. A formal, written response was offered.

We would appreciate a more formal response. Enclosed, for reference, is a copy of the technical information previously provided by e-mail.

Sincerely,

Enclosure

Ex. 4 - CBI

Ex. 4 - CBI

To: mike.hennard@VW.com[]

Cc: CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Arvon

Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[];

N=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Jim

Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]

Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Wed 8/4/2010 8:18:14 PM Subject: Updated spreadsheet for M158

M 158.xls

Hi, Mike.

I've attached the updated spreadsheet for this class. As I suspected, the odometer readings were switched between M158-0024 and M158-0034. Also, I checked again and no codes were found on any of the vehicles tested at EPA.

Please forward this to the others that were at the meeting. When you have a chance, please send us a copy of the presentation.

Thanks.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

To: Lynn Sohacki/AA/USEPA/US@EPA[]

Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Johnson, Stuart"

[Stuart.Johnson@vw.com] From: "Hennard, Mike"

Sent: Thur 8/5/2010 1:33:00 PM **Subject:** VW Presentations - July 29

Meeting EPA Surveillance 8ADXV03 1374 work to EPA.pdf

Surveillance 7ADXT04.2358 epa.pdf

mike.hennard@vw.com

Lynn:

As you requested, here are PDF format copies of presentation we gave in July 29th meeting at your office.

One additional question, can you supply EPA data sheet for 3.1L vehicles (similar to data sent for 4.2L vehicles).

Michael Hennard

Manager - Emissions Compliance EEO

Volkswagen Group of America

3800 Hamlin Road

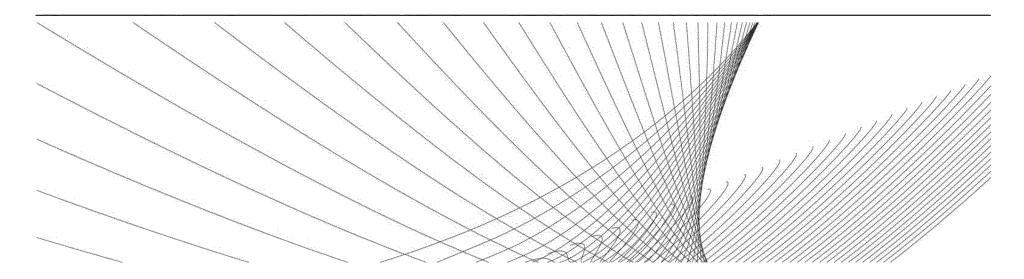
Auburn Hills, MI 48326

Telephone Number: 248 754 4202

Fax: 248 754 4207

mike.hennard@vw.com





EPA In-Use Surveillance Test Program

(Engine Family 8ADXV03.1374)



Topics

- 1. IUVP Test Results (Engine Family 8ADXV03.1374)
- 2. EPA In-Use Surveillance Test Class Description
- 3. EPA Test Results / VWGoA Test Results
 - 1st Vehicle (VIN.....215)
 - 2nd Vehicle (VIN.....351)
 - 3rd Vehicle (VIN......944)
 - 4th Vehicle (VIN......654)
 - 5th Vehicle (VIN......607)
- 4. Testing Summary
- 5. Conclusion
- 6. Proposal Next Steps

VWGoA - EEO 07/29/2010



1. IUVP-Test Results Engine Family 8ADXV03.1374

- 2 Vehicles tested / reported in earlier IUVP program (see first two lines)
- MY 2008 low mileage

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
10300	AUDI / A6	2008	Ex. 6	IUVP	2009-06-LM	0.0702	0.9189	0.006	21.41	93.6%	27.0%	12.0%
22000	AUDI / A6	2008	Ex. 6	IUVP	2009-06-LM	0.0634	0.4494	0.0256	23.94	54.5%	13.2%	51.2%

VWGoA - EEO 07/29/2010



2. In-Use Surveillance Test Class Description (Engine Family 8ADXV03.1374)

Program began February 2010

Engine Family: 8ADXV03.1374

Models: AUDI A4 and AUDI A6

• US Population: 17,017

EPA has tested 5 vehicles

• one car passed

VWGoA - EEO 07/29/2010



1st vehicle (VIN.....215)

EPA test center Ann Arbor

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
32808	AUDI A6	2008	Ex. 6	EPA	FTP #1	0.0543	0.28789	0.06979	22.93	72.4%	8.5%	139.6%

- car failed test at EPA
- contacted customer shipped car to VWGoA test laboratory

Volkswagen test center Westlake

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
34292	AUDI A6	2008		VW	FTP #1 VW Lab		0.3128	0.0276	23.74	101.1%	9.2%	55.2%
34311	AUDI A6	2008	EX. 6	VW	FTP #2 VW Lab	0.0511	0.2654	0.0233	23.39	68.1%	7.8%	46.6%
34329	AUDI A6	2008		VW	FTP #3 VW Lab	0.0552	0.255	0.026	23.89	73.6%	7.5%	52.0%

- first test in VW laboratory marginally failed
- second test in VW laboratory passed
- third test in VW laboratory passed too

VWGoA - EEO 07/29/2010



2nd vehicle (VIN.....351)

EPA test center Ann Arbor

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO NOx [% Std.]
26602	AUDI A6	2008	Ex. 6	EPA	FTP #2	0.0721	0.66211	0.01228	22.15	96.1%	19.5% 24.6%

car passed test at EPA

VWGoA - EEO 07/29/2010



3rd vehicle (VIN.....944)

EPA test center Ann Arbor

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO NOx [% Std.] [% Std.]
13402	AUDI A6	2008	Ex. 6	VW	FTP #1 VW Lab	0.0843	0.78665	0.01491	21.08	112.4%	23.1% 29.8%

- car failed test at EPA
- contacted customer shipped car to VWGoA test laboratory

Volkswagen test center Westlake

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
13798	AUDI A6	2008		vw	FTP #1 VW Lab	0.1114	1.0946	0.0023	19.99	148.5%	32.2%	4.6%
13816	AUDI A6	2008	EX. 6	vw	FTP #2 VW Lab	0.0982	0.8886	0.0019	21.22	130.9%	26.1%	3.8%
13850	AUDI A6	2008		vw	FTP #3 VW Lab	0.0622	0.7552	0.0023	21.37	82.9%	22.2%	4.6%

- first test in VW laboratory failed as received
- second test in VW laboratory failed
- third test passed (with US06 pre-conditioning)

VWGoA - EEO 07/29/2010



4th vehicle (VIN......654)

EPA test center Ann Arbor

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]			NMOG CO [% Std.] [% S	NOx PM [g/mi]
27415	AUDI A6	2008	Ex. 6	EPA	FTP #4	0.12319	0.94658	0.01485	0.01051	21.51	170.8% 27.8	% 29.7% 105.1%

- car failed test at EPA
- contacted customer shipped car to VWGoA test laboratory

Volkswagen test center Westlake

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]		NOx 0.05 [gram / mi]	PM 0.01 [gram / mi]		NMOG [% Std.]		NOx [% Std.]	PM [%g/mi]
28573	AUDI A6	2008	Ex. 6	vw	FTP #1 VW Lab	0.0703	0.6126	0.0132	0.0056	21.92	93.7%	18.0%	26.4%	56.0%

• first test in VW laboratory passed

VWGoA - EEO 07/29/2010



5th vehicle (VIN......607)

EPA test center Ann Arbor

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]		NOx 0.05 [gram / mi]	PM 0.01 [gram / mi]		NMOG [% Std.] [CO NO: % Std.] [% St	c PM d.] [%g/mi]
18914	AUDI A4	2008	Ex. 6	EPA	FTP #5	0.11077	1.99387	0.02676	0.02185	17.26	163.6%	58.6% 53.6	% 218.5%

- car failed test at EPA
- contacted customer shipped car to VWGoA test laboratory

Volkswagen test center Westlake

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]		NOx 0.05 [gram / mi]			NMOG [% Std.]		Ox PM Std.] [%g/mi]
20920	AUDI A4	2008	Ex. 6	vw	FTP #1 VW Lab	0.0498	0.5918	0.005	0.006	21.90	66.4%	17.4% 10	.0% 70.0%

- first test in VW laboratory passed
 - VW noticed a questionable variance in EPA test results for this vehicle
 - fuel economy and emission data not consistent with other vehicles tested
 - fuel economy numbers lower and PM much higher than re-test at VW laboratory

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4. Testing Summary

VW re-tested 4 cars at VW Westlake lab that failed EPA Surveillance program

- 3 passed as received at VW lab
 - •1 vehicle that passed at VW lab showed inconsistent data at EPA
 - Low fuel economy / excessive PM
- 1 required additional US06 preconditioning to pass at VW lab
- 1 vehicle passed at EPA

 No re-test at VW

VWGoA - EEO 07/29/2010 10



5. Conclusion

- It is VWGoA opinion that this concept is acceptable (4 of 5 vehicles passed)
 and no additional testing is needed within EPA's surveillance program.
- In extreme cases additional US06 pre conditioning may improve test results for the following reasons:
 - Variances of customer fuel versus test fuel (requires longer fuel adaptation)
 - Possible poor quality (as received) fuel (requires longer fuel adaptation)
 - Possible catalyst poisoning

VWGoA - EEO 07/29/2010 ₁₁

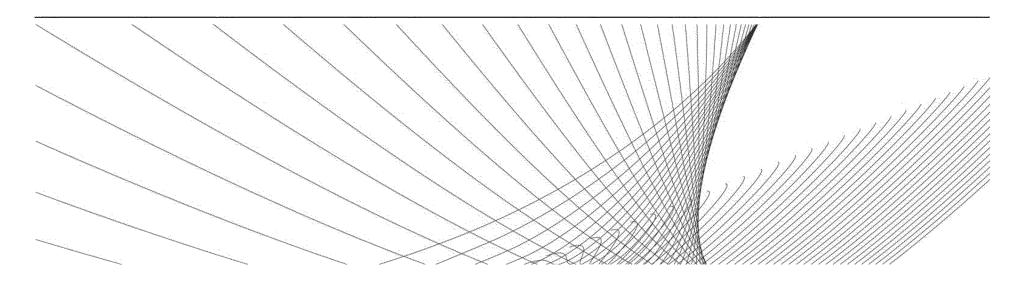


6. Possible Next Steps

- 1. Volkswagen offers to perform additional testing of customer cars
- 2. Volkswagen offers to analyze current fuel samples from customer cars
- 3. VW will provide additional test data to EPA when available

VWGoA - EEO 07/29/2010 12





EPA In-Use Surveillance Test Program

(Engine Family 7ADXT04.2358)



Topics

- 1. IUVP Test Results (Engine Family 7ADXT04.2358)
- 2. EPA In-Use Surveillance Test Class Description
- 3. EPA Testing
 - 1st Vehicle
 - 2nd Vehicle
 - 3rd Vehicle
- 4. Conclusion

VWGoA - EEO 07/29/ 2010



IUVP-Testing/Reporting (Engine Family 7ADXT04.2358)

- 2 Vehicles have been tested/reported in IUVP (see first two lines)
- In agreement with EPA and ARB, 3 additional vehicles tested/reported—IUCP (see last three lines)

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
11,230	AUDI / SUQ / Q7	2007		IUVP	2007-01-LM	0.0311	0.5480	0.0299	15.4551	41.4%	16.1%	59.9%
22,966	AUDI / SUQ / Q7	2007		IUVP	2007-02-LM	0.1653	0.4207	0.0225	15.9554	220.5%	12.4%	45.0%
19,562	AUDI / SUQ / Q7	2007	Ex. 6	IUVP	2007-01-LM	0.0445	0.6816	0.0151	16.5053	59.3%	20.0%	30.1%
34,695	AUDI / SUQ / Q7	2007		IUVP	2007-02-LM	0.0560	0.6635	0.0209	16.0402	74.7%	19.5%	41.9%
25,398	AUDI / SUQ / Q7	2007		IUVP	2007-03-LM	0.0645	0.8204	0.0218	16.4598	86.0%	24.1%	43.6%

VWGoA - EEO

07/29/ 2010



In-Use Surveillance Test Class (Engine Family 7ADXT04.2358)

Program began June 2009

Engine Family: 7ADXT04.2358

Models: AUDI Q7 and VW-Touareg

•US Population: 9,727

EPA tested 3 vehicles in this Program

VWGoA - EEO 07/29/ 2010



1st Vehicle - Results (Engine Family 7ADXT04.2358)

Results for 1st Vehicle procured and tested by EPA

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
43,328	AUDI / SUQ / Q7	2007	Ev 6	EPA	FTP-#1	0.3082	2.1007	0.0255	14.3500	410.9%	61.8%	51.1%
43,402	AUDI / SUQ / Q7	2007	EX. O	EPA	FTP-#2	0.1109	0.6380	0.0193	13.4000	147.9%	18.8%	38.6%

1st Vehicle procured and tested by EPA was also IUVP vehicle that failed

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
11,230	AUDI / SUQ / Q7	2007		IUVP	2007-01-LM	0.0311	0.5480	0.0299	15.4551	41.4%	16.1%	59.9%
22,966	AUDI / SUQ / Q7	2007		IUVP	2007-02-LM	0.1653	0.4207	0.0225	15.9554	220.5%	12.4%	45.0%
19,562	AUDI / SUQ / Q7	2007	□ Ex. 6 □	IUVP	2007-01-LM	0.0445	0.6816	0.0151	16.5053	59.3%	20.0%	30.1%
34,695	AUDI / SUQ / Q7	2007		IUVP	2007-02-LM	0.0560	0.6635	0.0209	16.0402	74.7%	19.5%	41.9%
25,398	AUDI / SUQ / Q7	2007		IUVP	2007-03-LM	0.0645	0.8204	0.0218	16.4598	86.0%	24.1%	43.6%

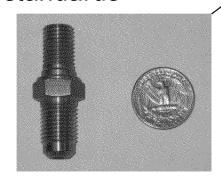
VWGoA - EEO

07/29/ 2010

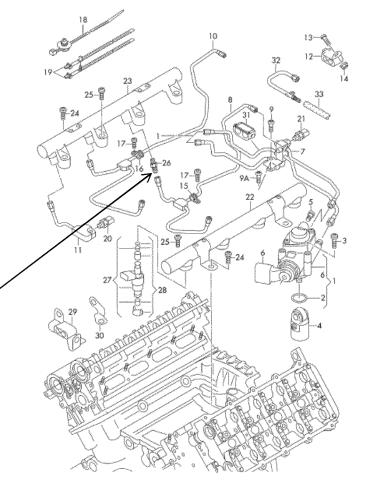


1st Vehicle – Analysis in Westlake, CA (Engine Family 7ADXT04.2358)

- Vehicle tested and analyzed in Westlake
- → Emission results above NMOG-Standard
- Analysis show:
 - catalyst works within specs
 - rapid pressure loss in fuel rail
- → Fuel pressure limiters have been changed
- Vehicle tested with new fuel pressure limiters
- → Emission results below standards



Fuel Pressure Limiter



VWGoA - EEO

07/29/ 2010



1st Vehicle - Results (Engine Family 7ADXT04.2358)

- •1st Vehicle procured and tested by EPA (first two lines show EPA-Results)
- Analyzed and tested in Westlake, CA (last two lines show Results in Westlake)

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
43,328	AUDI / SUQ / Q7	2007		EPA	FTP-#1	0.3082	2.1007	0.0255	14.3500	410.9%	61.8%	51.1%
43,402	AUDI / SUQ / Q7	2007	Ev 6	EPA	FTP-#2	0.1109	0.6380	0.0193	13.4000	147.9%	18.8%	38.6%
44,051	AUDI / SUQ / Q7	2007	EX. O	WL,CA	FTP-#1-WL	0.1231	0.4497	0.0226	14.6768	164.2%	13.2%	45.2%
44,071	AUDI / SUQ / Q7	2007		WL,CA	FTP-#2-WL	0.0381	0.3201	0.0258	14.7524	50.8%	9.4%	51.7%

VWGoA - EEO

07/29/2010



2nd and 3rd Vehicle - Results (Engine Family 7ADXT04.2358)

Results for 2nd Vehicle procured and tested by EPA

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
26,354	AUDI / SUQ / Q7	2007		EPA	FTP-#1	0.0882	0.5607		14.3100		16.5%	56.4%
26,447	AUDI / SUQ / Q7	2007	EX. O	EPA	FTP-#2	0.0749	0.5230	0.0292	14.1900	99.9%	15.4%	58.4%

Results for 3rd Vehicle procured and tested by EPA

Mileage	Model	Mod Year	VIN	Test	Test Type	NMOG 0.075 [gram / mi]	CO 3.4 [gram / mi]	NOx 0.05 [gram / mi]	FE [mi / gal]	NMOG [% Std.]	CO [% Std.]	NOx [% Std.]
22,810	AUDI / SUQ / Q7	2007	Ex. 6	EPA	FTP-#1	0.0487	2.0133	0.0176	14.2800	65.0%	59.2%	35.2%

VWGoA - EEO 07/29/ 2010



Conclusion (Engine Family 7ADXT04.2358)

- In-Use Testing:
 - 4 out of 5 vehicle passed the emission test No additional testing needed
- EPA In-Use Surveillance Test Class:
 - 3 vehicles have been tested
 - 1st vehicle failed same vehicle failed in IUVP as well
 - 1st vehicle passed after repair
 - 2nd vehicle passed
 - 3rd vehicle passed
 - → 1 defect vehicle failed (only 27 warranty claims limiter valve)
 2 vehicles passed

VWGoA - EEO

07/29/2010

To: "Hennard, Mike" [mike.hennard@vw.com]

Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Johnson, Stuart"

[Stuart.Johnson@vw.com]

Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 8/5/2010 1:58:39 PM Subject: Re: VW Presentations - July 29

N116.xls

mike.hennard@vw.com

Thanks, Mike.

Here is the summary sheet for the 3.1L vehicles. I corrected the odometer reading for N116-0051.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Hennard, Mike" <mike.hennard@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>, "Johnson, Stuart"

<Stuart.Johnson@vw.com> Date: 08/05/2010 09:33 AM Subject: VW Presentations - July 29

Lynn:

As you requested, here are PDF format copies of presentation we gave in July 29th meeting at your office.

One additional question, can you supply EPA data sheet for 3.1L vehicles (similar to data sent for 4.2L vehicles).

Michael Hennard

Manager - Emissions Compliance EEO

Volkswagen Group of America 3800 Hamlin Road Auburn Hills, MI 48326

Telephone Number: 248 754 4202

Fax: 248 754 4207 mike.hennard@vw.com

[attachment "Meeting_EPA_Surveillance_8ADXV03 1374 work to EPA.pdf" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Surveillance_7ADXT04.2358 epa.pdf" deleted by Lynn

Sohacki/AA/USEPA/US]

Class Summary: Class Summary: Class Summary: 8,															8/2/201
	ADXV03.														
Model year: 20	800														
	udi														
Model: A	.6														
Production:															
/ehicle O		FTP Test Date	Change	Test CO CO) Std	Test NOx	NOv Std	Test NMOG	NMOG Std	Evap Test Date	Test Evap	Evan Std	PM	PM Std.	US06 Test
	uo.	Dute	onunge	100000	Jota	restrica	ITOX GIG	restrines	WING G GIG		rest Liup	_rup ota			no US06
N116-0051	13365	3/10/2010		0.787	3.4	0.015	0.05	0.084	0.075	3/11/2010	1.129	0.65		10	
no mil															
N116-0054	27378	6/3/2010	1	0.95		0.015		0.1281					10.513*	k	
no mil															
N116-0088	32768	2/23/2010	1	0.288		0.069		0.0542							
no mil															
N116-0106	18873	6/4/2010		1.99		0.027		0.1132					21.88	3	
no mil	00504	0/00/0040		0.000		0.0400		0.0704							
N116-0174	26564	2/23/2010		0.662		0.0123		0.0721							
no mil /W IUVP Tests															
V V V 10 V 1 1 6313															
WAUAH74F88N058342	23082							0.0634							
	10983							0.0702							

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]; N=Ben

Haynes/OU=AA/O=USEPA/C=US@EPA[]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 8/5/2010 3:30:46 PM

Subject: RE: VW Group: Bentley Procedure Request for Refueling Flex-Fuel Test Vehicle

Ben, Bentley's refueling procedure is below.

Bob, we would like to test with E00 first so please have the vehicle setup for gasoline when its delivered.

Thanks.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" < Robert. Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 07/28/2010 03:04 PM

Subject: RE: VW Group: Bentley Procedure Request for Refueling Flex-Fuel Test Vehicle

That is an LA4.

The Bentley guys sometimes use some very old terminology.

If I had thought about it, I would have changed it.

I don't know how long you've been around, but that comes from way back in the days of two bag FTP tests.

Bob

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Wednesday, July 28, 2010 2:43 PM

To: Hart, Robert (VWoA)

Subject: Re: VW Group: Bentley Procedure Request for Refueling Flex-Fuel Test Vehicle

Don't recall ever hearing of a FTP72. Is that like a H-74 or LA4?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" < Robert. Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 07/28/2010 11:08 AM

Subject: VW Group: Bentley Procedure Request for Refueling Flex-Fuel Test Vehicle

Hello Jim,

Since the Bentley Continental flex-fuel vehicle will be tested with both Tier 2 Cert and E85 fuels, to ensure a complete flush of the fuel system between tests, Bentley requests that the EPA use the sequence below when switching fuel types for confirmatory testing.

Fuel drain Fill with 40% fuel FTP72 Fuel drain Fill with 40% fuel FTP72

Please let me know if this is acceptable.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]; N=Mike

Haley/OU=DC/O=USEPA/C=US@EPA[]

Cc: []
Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 8/5/2010 8:16:08 PM

Subject: Notification of a new in-use confirmatory test class

NOTIF-N-001c-Audi.doc.pdf

Hi.

Attached is a letter that was sent to your company announcing the selection of an EPA in-use confirmatory class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY 2565 PLYMOUTH ROAD

ANN ARBOR, MICHIGAN 48105-2498

August 5, 2010

OFFICE OF AIR AND RADIATION

Mr. Dennis Reineke Volkswagen of America 3800 Hamlin Road Auburn Hills, Michigan 48326

Dear Mr. Reineke:

The Environmental Protection Agency will test a 2008 model-year Audi test-group in our confirmatory test-program. The group shown in Enclosure 1 will be tested at the National Vehicle and Fuel Emissions Laboratory in Ann Arbor, Michigan.

After sample vehicles have been identified and approximately a week before they will be brought in for maintenance, I will notify you via e-mail of the vehicle identification number. Please complete and return the parameters form that will be attached to the e-mail.

Maintenance will consist of an under-hood inspection and review of on-board computer codes. The federal test procedure and highway cycle will follow a single LA-4 preconditioning cycle. We will measure the particulate level of each vehicle. If this test-group contains models which are equipped with 4WD or AWD, the vehicles may be tested in either of these modes.

We invite your representatives to be present as observers during the test program. If you have any questions concerning this investigation please contact me.

Sincerely,

Lynn Johnohi

Lynn Sohacki

Compliance and Innovative Strategies Division

Enclosure

ENCLOSURE 1

<u>Lab</u> NVFEL

Ann Arbor, Michigan

Test Group 8ADXV03.1374

Estimated Start Date Week-ending October 8, 2010

Recall/Testing Representative Lynn Sohacki

<u>Telephone Number</u> (734) 214- 4851

E-mail address Sohacki.lynn@epa.gov

<u>Class Numbers</u> N001c/N002c (low-mileage / high-mileage)

To: mike.hennard@VW.com[]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Fri 8/6/2010 1:11:56 PM

Subject: Fw: Notification of a new in-use confirmatory test class

NOTIF-N-001c-Audi.doc.pdf

Hi, Mike.

I intended to send this to you as well as Sebastian.

Regards,

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

---- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/06/2010 09:11 AM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>, Mike Haley/DC/USEPA/US@EPA

Date: 08/05/2010 04:16 PM

Subject: Notification of a new in-use confirmatory test class

Hi.

Attached is a letter that was sent to your company announcing the selection of an EPA in-use confirmatory class. Please let me know if you have any questions.

Thanks,

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY 2565 PLYMOUTH ROAD

ANN ARBOR, MICHIGAN 48105-2498

August 5, 2010

OFFICE OF AIR AND RADIATION

Mr. Dennis Reineke Volkswagen of America 3800 Hamlin Road Auburn Hills, Michigan 48326

Dear Mr. Reineke:

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Sincerely,

Lynn Johnohi

Lynn Sohacki

Compliance and Innovative Strategies Division

Enclosure

ENCLOSURE 1

<u>Lab</u> NVFEL

Ann Arbor, Michigan

Test Group 8ADXV03.1374

Estimated Start Date Week-ending October 8, 2010

Recall/Testing Representative Lynn Sohacki

<u>Telephone Number</u> (734) 214- 4851

E-mail address Sohacki.lynn@epa.gov

<u>Class Numbers</u> N001c/N002c (low-mileage / high-mileage)

From: Sent: Subject:	"Kata, Leonard" Mon 8/9/2010 5:17:08 PM VW/Audi Meeting with EPA							
Hello Jim								
	elephone conversation, I am sending a request for a meeting with EPA staff on Thursday 1, August 19, 2010.							
Prelimina	ry discussion topics would be:							
. ,	Norst case emission and emission impact for OBD monitor							
. 1	HEV application for certification (example, open points)							
. ,	· Worst case determination for FE (GHG) and emissions e.g. Start/Stop Switch							
. [Emission warranty part list for HEV parts and A/C system (GHG)							
. [Determination of OBD relevance							
. 9	Specific Hybrid test issues							
l believe t explanati	hat we would need about 2 hours. I will try to refine the list of topics and provide better on.							
Best rega	rds,							
Len								
Leonard \	V. Kata							
Manager,	Emission Regulations and Certification							

Jim Snyder/AA/USEPA/US@EPA[]

To:

2017-FFP_001274 VW FOIA, EPA 06/20/2017

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 8/9/2010 8:13:41 PM

Subject: VW/Audi Meeting with EPA: Misc issues

Hello Jim:

Per our telephone conversation, I am sending a request for a meeting with EPA staff on Thursday afternoon, August 19, 2010.

Preliminary discussion topics would be:

- Worst case emission and emission impact for OBD monitor
- HEV application for certification (example, open points)
- Worst case determination for FE (GHG) and emissions e.g. Start/Stop Switch
- · Emission warranty part list for HEV parts and A/C system (GHG)
- Determination of OBD relevance
- Specific Hybrid test issues

I believe that we would need about 2 hours. I will try to refine the list of topics and provide better explanation.

Best regards,

Len

Leonard W. Kata

Manager, Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 8/9/2010 8:13:41 PM

Subject: VW/Audi Meeting with EPA: Misc issues

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- HEV application for certification (example, open points)
- Worst case determination for FE (GHG) and emissions e.g. Start/Stop Switch
- · Emission warranty part list for HEV parts and A/C system (GHG)
- Determination of OBD relevance
- Specific Hybrid test issues

I believe that we would need about 2 hours. I will try to refine the list of topics and provide better explanation.

1

Best regards,

Len

VW FOIA, EPA

Leonard W. Kata

Manager, Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Kata, Leonard"

Sent: Tue 8/10/2010 12:49:33 PM

Subject: Tentative: VW/Audi Meeting with EPA: Misc issues

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 8/10/2010 1:48:59 PM

Subject: Rescheduled: VW/Audi Meeting with EPA: Misc issues (Aug 19 01:00 PM EDT in AA-

601C/AA-OTAQ-LAB@EPA)

Hello Jim:

Per our telephone conversation, I am sending a request for a meeting with EPA staff on Thursday afternoon, August 19, 2010.

Preliminary discussion topics would be:

- · Worst case emission and emission impact for OBD monitor
- · HEV application for certification (example, open points)
- · Worst case determination for FE (GHG) and emissions e.g. Start/Stop Switch
- Emission warranty part list for HEV parts and A/C system (GHG)
- Determination of OBD relevance
- Specific Hybrid test issues

I believe that we would need about 2 hours. I will try to refine the list of topics and provide better explanation.

Best regards,

Len

Leonard W. Kata

Manager, Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

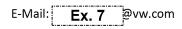
Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

@vw.com] To: Ex. 7 Cc: Bcc: From: CN=Jim Snyder/OU=AA/O=USEPA/C=US Tue 8/10/2010 6:14:05 PM Sent: Subject: Re: VW/Audi Meeting with EPA Sorry, I missed the date in your note. You should have received a re-schedule meeting notice. Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov Ex. 7 From: @vw.com> Jim Snyder/AA/USEPA/US@EPA To: 08/09/2010 01:17 PM Subject: VW/Audi Meeting with EPA Hello Jim: Per our telephone conversation, I am sending a request for a meeting with EPA staff on Thursday afternoon, August 19, 2010. Preliminary discussion topics would be: Worst case emission and emission impact for OBD monitor HEV application for certification (example, open points) Worst case determination for FE (GHG) and emissions e.g. Start/Stop Switch Emission warranty part list for HEV parts and A/C system (GHG) Determination of OBD relevance Specific Hybrid test issues I believe that we would need about 2 hours. I will try to refine the list of topics and provide better explanation. Best regards, **Ex.** 7

Engineering and Environmental Office Volkswagen Group of America, Inc.

Ex. 7



To: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]
Cc: []

Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Wed 8/11/2010 1:17:27 PM

Subject: In-use vehicles scheduled for next week

In-Use Parameters Form.xls

Good morning.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0092 (2008 VW/Passat) - **Ex. 6** P900 vehicle pick up on 8/17/10 (Tuesday)

N148RXX-0184 (2008 VW/Passat) - **Ex. 6** 0900 vehicle pick up on 8/19/10 (Thursday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.181104(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

To: Cc: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Rodgers, William" [William.Rodgers@vw.com] "Hart, Robert (VWoA)" Wed 8/11/2010 5:27:52 PM Confirmatory Test Results
oubject.	Committatory restrictions
Hello Jim,	
	er told me that you will send the test results via e-mail. I assume that he is talking about pies of the QC'd lab reports for the tests.
	ude both Bill Rodgers (William.Rodgers@vw.com) and me as recipients of the e-mail so we if one of us is not here.
Thanks,	
Bob Hart	
Robert Har	t
Engineerin	g and Environmental Office
Volkswage	n Group of America, Inc.
3800 Haml	in Road
Auburn Hil	ls, MI 48326
Phone: (24	8) 754-4224
Fax: (248)	754-4207
E-mail: rob	ert.hart@vw.com

From:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Wed 8/11/2010 8:00:21 PM
	Diesel Shift Tables
Hello Jim,	
l will contact diesel.	t Germany for to see if any of the shift tables currently in the system will work for the M6
I should have	e an answer for you by the end of the week.
Best regards	5,
Bob Hart	
Robert Hart	
Engineering	and Environmental Office
Volkswagen	Group of America, Inc.
3800 Hamlin	n Road
Auburn Hills	, MI 48326
Phone: (248)) 754-4224
Fax: (248) 75	

E-mail: robert.hart@vw.com

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]; Rodgers, William"

[William.Rodgers@vw.com]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Wed 8/11/2010 8:26:19 PM

Subject: Confirmatory cert test data on the 2011 Jetta

2011 VW Jetta 1st tests.pdf

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov



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		general and a similar		. Laboratory Te				CVS
				its- Refer to VER	IFY Reports	s for Official Data	144100400000	
Tankinin		THE RESIDENCE OF THE PERSON OF	2010-0231-004		and the second s		VW36100220	
Test Information	Vove	Test Date:	8/11/2010 08:56:49 / 09:3	n.			VOLKSWAGEN	
Juneo Stare	7.			2		MFR Codes:	7.7	VWX
	ru	el Container ID:	61 Tier 2 Cert 1	talia (m.th.)		Config #:		
E 155/7 8	*1			Contract Contract		Transmission:		
		ulation Method:		2-day exhaust (w/d		Shift Schedule:		
Vet photo		etest Remarks:	Gasomie			Beginning Odometer:		
The state of the s	1-1	etest nemarks.				Drive Schedule:		
	<u></u>	***				Soak Period:	ZZ.0 HOUIS	
Bag Data		HC-FID	CO	NOx	CO2	CH4	NonMeth HC	
Phase 1		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample		8.301	48.886	0.228	1.206	2.878	(PP.110)	
Ambient		3.212	0.157	0.014	0.049	2.239		
Net Concentration		5.379	48.743	0.216	1.161	0.841	4.478	
	an							
Db 0	Remarks:					4		
Phase 2		2 140	രാഹര	0.007	0.204	A 444		
Sample Ambient		3.118 3.276	2.238 0.259	0.007 0.012	0.761 0.047	2.111 2.218		
Net Concentration		0.028	1.993	-0.005	0.047	0.019	0.008	
ivet Concentiation		0.020	1,000	-0.000	0.710	0.015	0.000	
	Remarks:							
Phase 3								
Sample		3.836	5.227	0.035	1.061	2.223		
Ambient		3.904	0.585	0.000	0.048	2.227		
Net Concentration		0.242	4.689	0.035	1.016	0.173	0.056	
	Remarks:							
Phase 4	1.50111011101							
Sample			*					
Ambient								
Net Concentration								
	Remarks:							
Results		HC-FID	CO	NOx	609	CDA	NMUC / NMCC	ValMDO
results		(gpm)	(gpm)	(gpm)	<u>CO2</u> (gpm)	<u>CH4</u> (gpm)	NMHC / NMOG (gpm)	Vol MPG
	Phase 1	0.051	0.927	0.006	347.2	0.009	0.042 / 0.044	(mpg) 25.487
	Phase 2	0.000	0.060	0.000	340.0	0.000	0.000 / 0.000	26.140
	Phase 3	0.002	0.089	0.001	302.5	0.002	0.001 / 0.001	29.375
		A 1 A 15	A S A S AND LONG A STORY	- 1 - 1 - 1 - 1		en e	প্ৰক্ৰিয়া কি ক্ৰিকাৰা কি	
							(NMOG=1.04xNMHC)	
	Weighted	0.01133	0.24752	0.00153	331.209		0.0089 / 0.0093	
Fuel Economy		Gasoline MPG				Dyno Settings		
	Phase 1	25.46					Inertia:	
	Phase 2	26.11					EPA Set Co A:	
	Phase 3	29.35					EPA Set Co B:	
							EPA Set Co C:	0.01828
	Weighted	26.80	a	Σ.		=	missions Bench:	DOOS
CONTRACTOR OF THE PROPERTY OF	AVDAEm1008		*	Page 1 of 2	gggsaft gyddiau i	El		*********
		F.YVUTA IV		rage ruiz	to the second se		runt ilme	e 11-Aug-2010 09:4

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		Elast Cational		Laboratory To				cvs
		Test Number: 2		Its- Refer to VER	IFY Reports for		VW36100220	
Results	Phase 1 Phase 2 Phase 3	HC-FID (grams) 0.181 0.002 0.008	<u>CO</u> (grams) 3.315 0.232 0.319	NOx (grams) 0.022 0.000 0.004	CO2 (grams) 1241.0 1310.2 1086.7	<u>CH4</u> (grams) 0.033 0.001 0.007	NMHC (grams) 0.151 0.000 0.002	Meth Respons 1.071
Fest Conditions	Avg Ce De Decific Humid N CO2 CFV Vr	arometer (inHg) all Temp (degF) aw Point (degF) ity (grains/lbm) Ox Corr Factor Dilution Factor mix (scf @68F) ate Avg (scfm)	Phase 1 29.02 75.05 48.86 52.91 0.9059 11.063 2062.51	Phase 2 29.02 75.08 48.71 52.62 0.9048 17.605 3531.37	Phase 3 29.02 75.20 48.58 52.34 0.9037 12.620 2063.56	Phase 4		
	Pha D	an Placement: O se Time (secs) istance (miles) sis Time (secs)	ne Fan - Down 506.90 3.574 76.9	- Front 870.00 3.853 73.0	508.59 3.592 73.0			

MFR Test Results

for Procedure 21 Federal fuel 2-day exhaust (w/can load)

MFR Number 1E+07 <u>HC</u> 0.0072 <u>CO</u> 0.191 <u>NOx</u> 0.0029

CO2

NMOG

MFR Lab: Volkswagen AG, Dept EASZ/1

NonMeth HC 0.0058

Odometer 3780 M MPG 27.1

27.1 MPG is 1.12 % higher than EPA MPG

Dyno: 21

Fuel: 61 Tier 2 Cert Gasoline

I have validated the data in accordance with the requirements of TP 730

Validated By:

EPAVDAEm100811084210

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Print Time 11-Aug-2010 09:49

8/11/2010 9:49 AM

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v100414 - d002

Paired Data Offset of ≥3% Report

	MFR VW	Num 590	MPH	EPA Lbs	Mfr. Lbs	Load Delta %	target	veh EPA	veh Mfr
VID:	VW35100220		10	9.872	1.79	-81.87%	37.64	27.768	35.85
	Config 0		20	17.19	9.1	-47.06%	45.7	28.51	36.6
			30	28.164	19.93	-29.24%	57.18	29.016	37.25
Test Numbers	<u>Date</u>	<u>Dyno</u>	40	42.794	34.28	-19.90%	72.08	29.286	37.8
231004 FTP	8/11/10	D002	50	61.08	52.15	-14.62%	90.4	29.32	38.25
231005 HFET	8/11/10	D002	60	83.022	73.54	-11.42%	112.14	29.118	38.6
231006 US06	8/11/10	D002						•	

Offset Summary

Salah Sa	Vehicle	+Set=	Targe	t
Quickcheck CD %	Diff	#D	V/0!	1

		<u>EPA</u>		MFG	Mfg Diff%			<u>EPA</u>	MFG	Mfg Diff%
FTP	FE		26.8	27.1	1.12%	US06	FE (Bag2)			11.59%
	THC		0.01133	0.0072	-36.45%		FE (Total)	25.84	25.7	-0.54%
	CO		0.24752	0.191	-22.83%		THC	0.00735	0.0271	268.71%
	NOx		0.00153	0.0029	89.54%		CO	0.41884	0.557	32.99%
	CO2		331.209	327.000	-1.27%		NOx	0.00967	0.0197	103.72%
	CH4				#DIV/0!		CO2	343.131	344	0.25%
	NMHC		0.0089	0.0058	-34.83%		CH4			#DIV/0!
							NMHC	0.0053	0.0254	379.25%
HFET	FE		39.67	42.3	6.63%	Dyno Set				
	THC		0.001	0.0074	640.00%	Coeffs.	<u>EPA</u>	MFG	Target	
	CO		0.114	0.286	150.88%	A	6.21	-2	33	
	NOx		0.002	0.0066	230.00%	В	0.1834	0.203	0.293	
	CO2		223.7	209	-6.57%	С	0.01828	0.0176	0.0171	
	CH4				#DIV/0!					
	NMHC		0	0.0072	#DIV/0!					

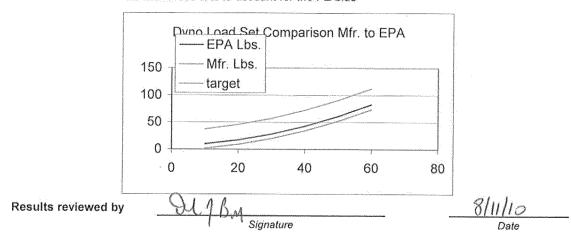
valid

Finding:	FTP	Test results and related information indicate results are
	HFET	Test results and related information indicate results are

HFET Test results and related information indicate results are valid
US06 Test results and related information indicate results are valid

Observations on finding:

- 1 EPA RLD values 9 lb higher than MFR.
- 2 CO2 values support FE offsets
- 3 There were no errors with these test to account for the FE bias



WXX

NVFEL Laboratory Test Data

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2010-0231-005 Test Date: 8/11/2010

Key Start: 10:13:11

Fuel Container ID: F00023 Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 3

Calculation Method: Gasoline

Pretest Remarks:

Vehicle ID: VW36100220

MFR Name VOLKSWAGEN

MFR Codes: 590 Config #: 00

Transmission: AUTO

Shift Schedule: A09980011

Beginning Odometer: 003980.0 MI

Drive Schedule: hwfet_hwfet

Net Concentration 0.116 11.572 0.149 1.449 0.061 0.051	Bag Data Phase 1 Sample Ambient	HC-FID (ppmC) 3.417 3.715	CO (ppm) 11.864 0.329	<u>NOx</u> (ppm) 0.177 0.031	<u>CO2</u> (%) 1.491 0.047	<u>CH4</u> (ppm) 2.141 2.340	NonMeth HC (ppmC)	
--------------------------------------------------------	---------------------------------	------------------------------------	--------------------------------	---------------------------------------	-------------------------------------	---------------------------------------	----------------------	--

Remarks:

Phase 2

Sample Ambient

Net Concentration

Test Information

Remarks:

Phase 3

Sample Ambient

Net Concentration

Remarks:

Phase 4

Sample Ambient

Net Concentration

Remarks:

Results	A CONTRACTOR AND A STREET OF THE PARTY OF TH	HC-FID				With the second		
Weanite		UC-LID	<u>co</u>	<u>NOx</u>	CO2	CH4	NMHC / NMOG	Vol MPG
	Phase 1	(gpm) 0.001	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	11036.1	0.003	0.114	0.002	223.7	0.000	0.000 / 0.000	39.711

(NMOG=1.04xNMHC)

Fuel Economy

Gasoline MPG Phase 1

39.67

Dyno Settings

Dyno #: D002

Inertia: 3625

EPA Set Co A: 6.21 EPA Set Co B: 0.1834

EPA Set Co C: 0.01828

Emissions Bench: D002

v100414 - d002 EPAVDAEm100811094737

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		Einal Laboret	NVFEL	Laboratory Te	st Data			cvs
		Test Number: 2	ory Test Rest 2010-0231-005	ults- Refer to VERI	FY Reports for		: VW36100220	
Results THE PROTECTION	Phase 1	HC-FID (grams) 0.006	<u>CO</u> (grams) 1.165	<u>NOx</u> (grams) 0.023	CO2 (grams) 2292.7	<u>CH4</u> (grams) 0.004	NMHC (grams) 0.003	Meth Response · 1.071
Test Conditions	Ba Avg Ce De Decific Humid N CO2 CFV Vi	arometer (inHg) ell Temp (degF) ew Point (degF) lity (grains/lbm) lOx Corr Factor Dilution Factor mix (scf @68F)	Phase 1 29.01 75.05 49.78 54.78 0.9132 8.981 3054.14	Phase 2	Phase 3	Phase 4		
MFR Test Result	Phai D Bag Analys	an Placement: O se Time (secs) istance (miles) sis Time (secs)	765.01 10.248 74.5	n - Front				
ME	R Number 1E+07	<u>HC</u> 0.0074	<u>CO</u> 0.286	<u>NOx</u> 0.0066	CO2	NMOG	NonMeth HC	200
Russ	Odometer 3666 M	MPG 42.3 PG is 6.62 % hig 5 2 ~ ~ ted the data in aq	her than EPA Spands		Dyno: 2 Fuel: 6 FTP 730		0.0072 Dept EASZ/1 asoline	7

8/11/2010 10:38 AM

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Print Time 11-Aug-2010 10:38

NVFEL Laboratory Test Data CVS Final Laboratory Test Results- Refer to VERIFY Reports for Official Data Test Number: 2010-0231-006 Vehicle ID: VW36100220 Test Information Test Date: 8/11/2010 MFR Name VOLKSWAGEN TED STATES Key Start: 11:00:21 MFR Codes: 590 **VWX** Fuel Container ID: F00023 Config #: 00 Fuel Type: 61 Tier 2 Cert Test Fuel Transmission: AUTO Test Procedure: 89 US06 Shift Schedule: A09980041 Calculation Method: Gasoline Beginning Odometer: 004001.0 MI Pretest Remarks: Drive Schedule: us06warmup 2bagus06 Bag Data HC-FID CO NOx CO2 CH4 NonMeth HC Phase 1 (ppmC) (ppm) (ppm) (%) (ppm) (ppmC) Sample 3.957 32.050 0.488 2.355 0.872 **Ambient** 3.224 0.252 0.013 0.045 2.237 Net Concentration 0.944 31.815 0.476 0.830 0.264 0.661 Remarks: Phase 2 Sample 3.451 10.361 0.181 1.114 2.160 Ambient 3.241 0.253 0.018 0.045 2.233 Net Concentration 0.480 10.130 0.165 1.072 0.112 0.359 Remarks: Phase 3 Sample Ambient Net Concentration Remarks: Phase 4 Sample Ambient Net Concentration Remarks: Results HC-FID CO <u>NOx</u> CO2 CH4 NMHC / NMOG Vol MPG (gpm) (gpm) (gpm) (gpm) (gpm) (gpm) (mpg) Phase 1 0.019 1.275 0.029 523.0 0.006 0.013 / 0.014 16.932 Phase 2 0.004 0.176 0.004 292.0 0.001 0.003 / 0.003 30.414 (NMOG=1.04xNMHC) Composite 0.00735 0.41884 0.00967 343.131 0.00221 0.0053 / 0.0055 Fuel Economy Gasoline MPG **Dyno Settings** Dyno #: D002 Phase 1 16.92 Inertia: 3625 Phase 2 30.38 EPA Set Co A: 6.21

ABC, worpen Is, toil pipe BP OK

Composite

EPAVDAEm100811103532

Page 1 of 2

Emissions Bench: D002 Print Time 11-Aug-2010 11:20

EPA Set Co B: 0.1834 EPA Set Co C: 0.01828

25.84

8/11/2010 11:20 AM

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v100414 - d002

	NVFEL	Laboratory To	est Data			cvs
Final Laborate	ory Test Resu	Its- Refer to VER	IFY Reports for			
Test Number: 2 ults HC-FID					D: VW36100220	
Phase 1 0.033 Phase 2 0.026	CO (grams) 2.255 1.093	<u>NOx</u> (grams) 0.051 0.027	CO2 (grams) 924.8 1818.4	<u>CH4</u> (grams) 0.011 0.007	<u>NMHC</u> (grams) 0.023 0.019	Meth Respo 1.071
Conditions Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF) Specific Humidity (grains/lbm) NOx Corr Factor CO2 Dilution Factor CFV Vmix (scf @68F)	Phase 1 29.01 75.09 49.40 54.01 0.9102 15.304 2149.94	Phase 2 29.01 75.22 49.66 54.55 0.9123 12.019 3273.54	Phase 3	Phase 4		
CVS Flow Rate Avg (scfm)	541.55	538.12				
Distance (miles) Bag Analysis Time (secs)	1.768 82.1	6.226 266.9				
	S06°					
Test Results for Procedure 90 U	CO	NO	000			
MFR Number HC 1E+07 0.0271 Odometer MPG	<u>CO</u> 0.557	NOx 0.0197	CO2 344 MER Lab: 1	NMOG 0 Volkswagen AC	NonMeth HC 0.0254 3, Dept EASZ/1	

v100414 - d002___

EPAVDAEm100811103532

Page 2 of 2

I have validated the data in accordance with the requirements of TP 730

Print Time 11-Aug-2010 11:20

06/20/2017

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Wed 8/11/2010 8:34:08 PM **Subject:** Re: Diesel Shift Tables

Thanks.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 08/11/2010 04:00 PM Subject: Diesel Shift Tables

Hello Jim,

I will contact Germany for to see if any of the shift tables currently in the system will work for the M6 diesel.

I should have an answer for you by the end of the week.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Rodgers, William"

Sent: Thur 8/12/2010 12:35:31 PM

Subject: RE: Confirmatory cert test data on the 2011 Jetta

william.rodgers@vw.com

Jim,

Thanks for the Jetta test results, we are evaluating it. Please send the Tiquan data to me when it becomes available because Bob Hart is out of the office today.

Just FYI, The Bentley is in route to Ann Arbor. Axel Reisner will be present when it arrives.

Bill Rodgers

Engineering and Environmental Office

VOLKSWAGEN Group of America, Inc. Rochester Hills, MI

United States

(248) 754-4219

(248) 754-4207

william.rodgers@vw.com

/__\. (o_l_/o)

VW FOIA, EPA

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

1

Sent: Wednesday, August 11, 2010 4:26 PM To: Hart, Robert (VWoA); Rodgers, William

Subject: Confirmatory cert test data on the 2011 Jetta

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov To: richard.thomas@vw.com[]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 8/12/2010 12:35:45 PM

Subject: Fw: Confirmatory cert test data on the 2011 Jetta

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov
----- Forwarded by Jim Snyder/AA/USEPA/US on 08/12/2010 08:35 AM -----

From: Jim Snyder/AA/USEPA/US

To: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>, "Rodgers, William" <William.Rodgers@vw.com>

Date: 08/11/2010 04:26 PM

Subject: Confirmatory cert test data on the 2011 Jetta

[attachment "2011 VW Jetta 1st tests.pdf" deleted by Jim Snyder/AA/USEPA/US]

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: "Rodgers, William" [William.Rodgers@vw.com]; Hart, Robert (VWoA)"

[Robert.Hart@vw.com]; ichard.thomas@vw.com[]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 8/12/2010 7:06:29 PM

Subject: RE: Confirmatory cert test data on the 2011 Tiquan

2011 VW Tiquan 1st US06.pdf

The FTP city and Highway are longer due to PM analysis. Should have friday.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

								CENT
				L Laboratory 1				cvs
				ults- Refer to VE	RIFY Reports for			
		TO THE RESIDENCE AND ADDRESS OF THE PROPERTY O	2010-0242-000	<u> </u>			VW416 80218	***************************************
Test Information	<u>on</u>	Test Date:				MFR Name		
THE BIANS		Key Start:				MFR Codes:		ADX
	<i>[</i>]	Fuel Container ID:				Config #:		
	37		61 Tier 2 Cert	Test Fuel		Transmission:		
18 771/Z	3/	Test Procedure:	And the second of the second			Shift Schedule:		
NO. 100	Z: C	Calculation Method:	Gasoline		Be	ginning Odometer:		
ZC PHO CZ		Pretest Remarks:				Drive Schedule:	us06warmup_2l	pagus06
A						***************************************		
				Versus survey and the second survey and the second survey and second survey are second survey and seco				
Bag Data		HC-FID	<u>co</u>	<u>NOx</u>	<u>CO2</u>	CH4	NonMeth HC	
Phase 1		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Samp		7.211	178.654	1.297	0.843	3.130		
Ambie		4.241	1.309	0.022	0.042	2.087	4.070	
Net Concentrati	on	3.243	177.429	1.276	0.803	1.178	1.972	
	Remark	/c'						
Phase 2	rveillall	10.						
<u>rnase z</u> Samp	nlo.	5.710	74.000	0.729	1.130	2.499		
Ambie		4.255	1.244	0.729	0.042	2.499		
Net Concentration		4.255 1.816	72.862	0.705	1.091	2.089 0.588	1.182	
iver Concentiati	OH	17010.	72.002	0.703	1.091	0.000	1.102	
	Remark	Ġ:						
Phase 3		***						
Samp	ole							
Ambie								
Net Concentration	on							
	Remark	(8:						
Phase 4								
Samp	ole							
Ambie	ent							
Net Concentration	on							
	Remark	KS:						
<u>Results</u>		HC-FID	<u>co</u> `	<u>NOx</u>	<u>CO2</u>	CH4	NMHC / NMOG	
	pro i	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	Phase		7.335	0.081	522.0	0.028	0.040 / 0.042	16.659
	Phase	2 0.016	1.315	0.020	309.5	0.006	0.011 / 0.011	28.531
							Anna and an anna an anna an anna an anna an anna an an	
	Compani	to 0.00705	0 64040	0.00040	250 500		(NMOG=1.04xNMHC	
Fuel Economy	Composi		2.64948	0.03313	356.599	0.01092	0.0172 / 0.0179	
ruel Economy	Dhan	Gasoline MPG				Dyno Settings	•	D329 - FWD
	Phase						Inertia:	
	Phase	2 28.50					EPA Set Co A:	
							EPA Set Co B:	
							EPA Set Co C:	0.02613
	Camana		±.	£		gion .	minatana Panat-	Mayor 7000-P
	Composi	te 24.59 100811124119		Page 1 of 2	***************************************	<u>to t</u>	missions Bench:	Mexa 7200dle ne 11-Aug-2010 13:3
v100414 - d329		10 0 10 1 1 1 1 7 11 1 1 1 1 1 1 1 1 1 1		F808 T012			Print Tim	10 1 LANG 2014 1 12/2

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	dent is		Laboratory T			my marane di terre e ta ki di	CVS
	Final Laborat Test Number: 2	ory Test Result 010-0242-006	Its- Refer to VER	IFY Reports for): VW416 80218	
Results Phase 2	<u>HC-FID</u> (grams) 1 0.118	CO (grams) 13.029 8.202	<u>NOx</u> (grams) 0.144 0.122	<u>CO2</u> (grams) 927.1 1930.4	CH4 (grams) 0.050 0.038	NMHC (grams) 0.072 0.066	Meth Respons 1.079
Avg Specific Hun CC CFV	Barometer (inHg) Cell Temp (degF) Dew Point (degF) nidity (grains/lbm) NOx Corr Factor O2 Dilution Factor Vmix (scf @68F)	Phase 1 28.99 74.26 52.12 59.86 0.9336 15.559 2227.28	Phase 2 28.99 74.44 52.08 59.78 0.9332 11.776 3414.34	Phase 3	Phase 4		
	Fan Placement: U hase Time (secs) Distance (miles) Ilysis Time (secs)	SO6 Only - On 130.01 1.776 81.8	e Large Fan - Doi 364.99 6.237 253.4	wn - Front 106.70			
MFR Test Results	for Procedure 90 L	JS06					
MFR Number 1E+07		<u>CO</u> 2.92	<u>NOx</u> 0.069	CO2 352	NMOG 0	NonMeth HC 0.0151	
Odometer 4426 M	MPG 24.9 MPG is 1.27 % hig	her than EPA N	MPG	Dyno:	Volkswagen AG 21 61 Tier 2 Cert G		
I have val	idated the data in ac	cordance with	the requirements		and the second s		
Validated	Ву:		Canya	Date:	8/11/1	Market -	

8/11/2010 1:30 PM

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Page 2 of 2

VTAURdxxx.xls

Print Time 11-Aug-2010 13:30

To: "Hennard, Mike" [mike.hennard@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 8/12/2010 8:27:01 PM Subject: Re: VW Presentations - July 29

mike.hennard@vw.com

Hi, Mike.

We are wondering if you have answers to the other questions that we posed to VW during our meeting. Specifically, you were going to investigate whether the MIL was on or if any fault codes were set when VW recruited vehicle with VIN ending 1590 after it failed at EPA.

Thanks.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Hennard, Mike" <mike.hennard@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>, "Johnson, Stuart"

<Stuart.Johnson@vw.com>
Date: 08/05/2010 09:33 AM
Subject: VW Presentations - July 29

Lynn:

As you requested, here are PDF format copies of presentation we gave in July 29th meeting at your office.

One additional question, can you supply EPA data sheet for 3.1L vehicles (similar to data sent for 4.2L vehicles).

Michael Hennard

Manager - Emissions Compliance EEO

Volkswagen Group of America 3800 Hamlin Road Auburn Hills, MI 48326

Telephone Number: 248 754 4202

Fax: 248 754 4207 mike.hennard@vw.com

[attachment "Meeting_EPA_Surveillance_8ADXV03 1374 work to EPA.pdf" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Surveillance_7ADXT04.2358 epa.pdf" deleted by Lynn

Sohacki/AA/USEPA/US]

To: Jim Snyder/AA/USEPA/US@EPA[]

Cc: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

 From:
 "Rodgers, William"

 Sent:
 Fri 8/13/2010 12:27:58 PM

 Subject:
 VW36100220 Release

william.rodgers@vw.com

Hello Jim,

Can you please make arrangements to release the Jetta #VW36100220 so we can pick it up after we deliver the other Jetta (VW36100250) on Monday morning the 16th.

Thanks,

Bill Rodgers

Engineering and Environmental Office

VOLKSWAGEN Group of America, Inc. Rochester Hills, MI

United States

(248) 754-4219

(248) 754-4207

william.rodgers@vw.com

/__\. (o_l_/o)

To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Fri 8/13/2010 12:47:29 PM Diesel Shift Tables
Hello Jim,	
indicated in	to our diesel cert engineer, shift tables 590 0035 (FTP) and 590 0036 (HFET) can be used as n the MY 2009 Application Common Sections (Section 12). These shift tables should already be Lab database. They are the standard VW gasoline engine M6 shift tables.
Here are th	ne upshift points by speed.
UP-SHIFT	
1 - 2 15 m	ph
2 - 3 25 m	ph
3 - 4 40 m	nph
4 - 5 47 m	ph
5 - 6 52 m	nph
Due to the	grow votice in the discolar angularies the following declatch weight mount be used.
DECLUTCH	gear ratios in the diesel transmission the following declutch points must be used:
6-0 30 m	
5 - 0 25mj	
4 - 0 20mj	
I am still w	aiting for the US06 schedule.
Best regard	ds,

Bob Hart
From: Hart, Robert (VWoA) Sent: Wednesday, August 11, 2010 4:00 PM To: 'Snyder.Jim@epamail.epa.gov' Subject: Diesel Shift Tables
Hello Jim,
I will contact Germany for to see if any of the shift tables currently in the system will work for the M6 diesel.
I should have an answer for you by the end of the week.
Best regards,
Bob Hart
Robert Hart
Engineering and Environmental Office
Volkswagen Group of America, Inc.
3800 Hamlin Road
Auburn Hills, MI 48326
Phone: (248) 754-4224
Fax: (248) 754-4207
E-mail: robert.hart@vw.com

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Fri 8/13/2010 7:04:30 PM **Subject:** Re: Diesel Shift Tables

Bob, Thanks for the help on the diesel. Hope you are feeling better today.

I talked to the lab and they said they'd release the Tiquan data today but still haven't seen them as of 1:30. I'll check one more time.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 08/13/2010 08:47 AM Subject: Diesel Shift Tables

Hello Jim,

According to our diesel cert engineer, shift tables 590 0035 (FTP) and 590 0036 (HFET) can be used as indicated in the MY 2009 Application Common Sections (Section 12). These shift tables should already be in the EPA Lab database. They are the standard VW gasoline engine M6 shift tables.

Here are the upshift points by speed.

UP-SHIFT

- 1 2 15 mph
- 2-3 25 mph
- 3 4 40 mph
- 4-5 47 mph
- 5 6 52 mph

Due to the gear ratios in the diesel transmission the following declutch points must be used:

DECLUTCH

- 6-0 30 mph
- 5-0 25mph
- 4-0 20mph

I am still waiting for the US06 schedule.

Best regards,

Bob Hart

From: Hart, Robert (VWoA)

Sent: Wednesday, August 11, 2010 4:00 PM

To: 'Snyder.Jim@epamail.epa.gov'

Subject: Diesel Shift Tables

Hello Jim,

I will contact Germany for to see if any of the shift tables currently in the system will work for the M6 diesel. I should have an answer for you by the end of the week.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: "Rodgers, William" [William.Rodgers@vw.com]
Cc: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Fri 8/13/2010 7:36:09 PM **Subject:** Re: VW36100220 Release

william.rodgers@vw.com

I tried to sign off on it but I can't find the paperwork, I think Van Amberg has it. I'll leave a note for Vince to sign off early Monday morning but call before you come out to verify.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Rodgers, William" < William.Rodgers@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Cc: "Hart, Robert (VWoA)" < Robert. Hart@vw.com>

Date: 08/13/2010 08:28 AM Subject: VW36100220 Release

Hello Jim,

Can you please make arrangements to release the Jetta #VW36100220 so we can pick it up after we deliver the other Jetta (VW36100250) on Monday morning the 16th.

Thanks,
Bill Rodgers
Engineering and Environmental Office

VOLKSWAGEN Group of America, Inc. Rochester Hills, MI United States (248) 754-4219 (248) 754-4207 william.rodgers@vw.com

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VW FOIA, EPA

To: "Rodgers, William" [William.Rodgers@vw.com]
Cc: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Fri 8/13/2010 8:03:47 PM

Subject: Tiquan test results

2011 VW Tiquan FTP and 2nd US06 wPM.pdf

Showed up but Hwy is missing.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov



								CERT
			NVFEL	_aboratory T	est Data			CVS
			atory Test Result	s- Refer to VER	IFY Reports	for Official Data		
			2010-0242-004				VW416 80218	
Test Information		Test Date:	8/11/2010			MFR Name	AUDI	
CHIEF STAN	Key S	tart / Hot Soak:	09:51:45 / 10:07			MFR Codes:	640	ADX
7. Maria 19.	Fue	el Container ID:	F00023			Config #:	00	
		Fuel Type:	61 Tier 2 Cert Te	st Fuel		Transmission:		
8 XXX 8	. 3		21 Federal fuel 2		can loa	Shift Schedule:	A06400035	
		ulation Method:				Beginning Odometer:	004484.0 MI	
VV PROTY	Pr	etest Remarks:				Drive Schedule:		
						Soak Period:		
Bag Data		HC-FID	CO	NOx	CO2	CH4	NonMeth HC	
Phase 1		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample		13.519	68.890	0.872	0.977	3.267		
Ambient		5.364	1.272	0.029	0.045	2.392		
Net Concentration		8.549	67.712	0.845	0.935	1.051	7.415	
	Remarks:							
Phase 2								
Sample		3.492	2.513	0.300	0.685	2.342		
Ambient		3.535	0.232	0.023	0.044	2.439		
Net Concentration		0.139	2.293	0.278	0.643	0.028	0.109	
	Remarks:							
Phase 3								
Sample		3.222	8.950	0.102	0.888	2.600		
Ambient		3.122	0.287	0.026	0.044	2.503		
Net Concentration		0.307	8.683	0.078	0.847	0.264	0.022	
	-							
	Remarks:							
Phase 4								
Sample								
Ambient								
Net Concentration								
	Remarks:	This test has na	ticulate results					
	Remarks:	This test has par	ticulate results.					
	Remarks:			NOx:		CH4	NMHC / NMOG	Vol MPG
	Remarks:	HC-FID	· CO	NOx (apm)	CO2 (apm)	CH4	NMHC / NMOG (apm)	Vol MPG (mpa)
		HC-FID (gpm)	: <u>CO</u> (gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	Phase 1	HC-FID (gpm) 0.110	<u>CO</u> (gpm) 1.756	(gpm) 0.033	(gpm) 381.2	(gpm) 0.016	(gpm) 0.095 / 0.099	(mpg) 23.132
Results	Phase 1 Phase 2	HC-FID (gpm) 0.110 0.003	<u>CO</u> (gpm) 1.756 0.095	(gpm) 0.033 0.017	(gpm) 381.2 418.5	(gpm) 0.016 0.001	(gpm) 0.095 / 0.099 0.002 / 0.002	(mpg) 23.132 21.237
	Phase 1	HC-FID (gpm) 0.110	<u>CO</u> (gpm) 1.756	(gpm) 0.033	(gpm) 381.2	(gpm) 0.016	(gpm) 0.095 / 0.099	(mpg) 23.132
	Phase 1 Phase 2	HC-FID (gpm) 0.110 0.003	<u>CO</u> (gpm) 1.756 0.095	(gpm) 0.033 0.017	(gpm) 381.2 418.5	(gpm) 0.016 0.001 0.004	(gpm) 0.095 / 0.099 0.002 / 0.002 0.000 / 0.000	(mpg) 23.132 21.237 25.904
Results	Phase 1 Phase 2	HC-FID (gpm) 0.110 0.003	<u>CO</u> (gpm) 1.756 0.095	(gpm) 0.033 0.017	(gpm) 381.2 418.5	(gpm) 0.016 0.001 0.004	(gpm) 0.095 / 0.099 0.002 / 0.002	(mpg) 23.132 21.237 25.904
Results	Phase 1 Phase 2 Phase 3 Weighted	HC-FID (gpm) 0.110 0.003 0.004	CO (gpm) 1.756 0.095 0.224	(gpm) 0.033 0.017 0.003	(gpm) 381.2 418.5 342.9	(gpm) 0.016 0.001 0.004	(gpm) 0.095 / 0.099 0.002 / 0.002 0.000 / 0.000 (NMOG=1:04xNMHC) 0.0210 / 0.0218	(mpg) 23.132 21.237 25.904
Results	Phase 1 Phase 2 Phase 3 Weighted	HC-FID (gpm) 0.110 0.003 0.004 0.02533 Gasoline MPG	CO (gpm) 1.756 0.095 0.224	(gpm) 0.033 0.017 0.003	(gpm) 381.2 418.5 342.9	(gpm) 0.016 0.001 0.004	(gpm) 0.095 / 0.099 0.002 / 0.002 0.000 / 0.000 (NMOG=1:04xNMHC) 0.0210 / 0.0218	(mpg) 23.132 21.237 25.904 D329 - FWD
Results	Phase 1 Phase 2 Phase 3 Weighted	HC-FID (gpm) 0.110 0.003 0.004 0.02533 Gasoline MPG 23.11	CO (gpm) 1.756 0.095 0.224	(gpm) 0.033 0.017 0.003	(gpm) 381.2 418.5 342.9	(gpm) 0.016 0.001 0.004	(gpm) 0.095 / 0.099 0.002 / 0.002 0.000 / 0.000 (NMOG=1:04xNMHC) 0.0210 / 0.0218 Dyno #:	(mpg) 23.132 21.237 25.904 D329 - FWD 3875
Results	Phase 1 Phase 2 Phase 3 Weighted	HC-FID (gpm) 0.110 0.003 0.004 0.02533 Gasoline MPG 23.11 21.22	CO (gpm) 1.756 0.095 0.224	(gpm) 0.033 0.017 0.003	(gpm) 381.2 418.5 342.9	(gpm) 0.016 0.001 0.004	(gpm) 0.095 / 0.099 0.002 / 0.002 0.000 / 0.000 (NMOG=1:04xNMHC) 0.0210 / 0.0218 Dyno #: Inertia:	(mpg) 23.132 21.237 25.904 D329 - FWD 3875 15.56
Results	Phase 1 Phase 2 Phase 3 Weighted Phase 1 Phase 2	HC-FID (gpm) 0.110 0.003 0.004 0.02533 Gasoline MPG 23.11	CO (gpm) 1.756 0.095 0.224	(gpm) 0.033 0.017 0.003	(gpm) 381.2 418.5 342.9	(gpm) 0.016 0.001 0.004	(gpm) 0.095 / 0.099 0.002 / 0.002 0.000 / 0.000 (NMOG=1:04xNMHC) 0.0210 / 0.0218 Dyno #: Inertia: EPA Set Co A:	(mpg) 23.132 21.237 25.904 D329 - FWD 3875 15.56 -0.1295
Results	Phase 1 Phase 2 Phase 3 Weighted Phase 1 Phase 2	HC-FID (gpm) 0.110 0.003 0.004 0.02533 Gasoline MPG 23.11 21.22	CO (gpm) 1.756 0.095 0.224	(gpm) 0.033 0.017 0.003	(gpm) 381.2 418.5 342.9	(gpm) 0.016 0.001 0.004	(gpm) 0.095 / 0.099 0.002 / 0.002 0.000 / 0.000 (NMOG=1.04xNMHC) 0.0210 / 0.0218 Dyno #: Inertia: EPA Set Co A: EPA Set Co B:	(mpg) 23.132 21.237 25.904 D329 - FWD 3875 15.56 -0.1295
Results Fuel Economy	Phase 1 Phase 2 Phase 3 Weighted Phase 1 Phase 2	HC-FID (gpm) 0.110 0.003 0.004 0.02533 Gasoline MPG 23.11 21.22	CO (gpm) 1.756 0.095 0.224	(gpm) 0.033 0.017 0.003	(gpm) 381.2 418.5 342.9	(gpm) 0.016 0.001 0.004 0.00465 Dyno Settings	(gpm) 0.095 / 0.099 0.002 / 0.002 0.000 / 0.000 (NMOG=1.04xNMHC) 0.0210 / 0.0218 Dyno #: Inertia: EPA Set Co A: EPA Set Co B:	(mpg) 23.132 21.237 25.904 D329 - FWD 3875 15.56 -0.1295 0.02613

06/20/2017

				Laboratory To				cvs
		Final Laborat Test Number: 2		ts- Refer to VER	IFY Reports for		: VW416 80218	
Results		HC-FID	CO	NOx	CO2	CH4	NMHC	Meth Respons
COLUMN TO STAN		(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.079
	Phase 1	0.394	6.297	0.119	1366.8	0.056	0.342	
(2)	Phase 2	0.011	0.365	0.067	1609.7	0.003	0.009	
	Phase 3	0.014	0.806	0.011	1235.2	0.014	0.001	
					6			
Ve enois/								
Test Conditions			Phase 1	Phase 2	Phase 3	Phase 4		
rest Conditions	D _o	romotor (Inl.In)	**************************************	Workston Commission Commission	Management of the Control of the Con	<u> </u>		
		rometer (inHg)	29.00	29.00	28.99			
		Il Temp (degF)	74.45	74.83	74.93			
	De	w Point (degF)	50.78	51.10	50.94			
Sp		ity (grains/lbm)	56.92	57.60	57.28			
		Ox Corr Factor	0.9217	0.9244	0.9231			
		Dilution Factor	13.605	19.540	15.063			
		nix (scf @68F)	2807.29	4807.71	2800.51			
	Total V	mix (scf@68F)	2820.65	4830.71	2813.85			
	CVS Flow R	ate Avg (scfm)	332.55	331.49	331.68			
		an Placement: C se Time (secs)	ne Fan - Down 506.50	- Front 870.20	506.60			
		istance (miles) sis Time (secs)	3.585 953.6	3.846 146.8	3.602 91.7			
		والمراس والمنتقد المنتقد	i v servici		w . w.			
MFR Test Results	to	or Procedure 21 I	-ederal fuel 2-d	ay exhaust (w/ca	n load)			
<u>MFI</u>	R Number 1E+07	<u>HC</u> 0.0202	<u>CO</u> 0.49	<u>NOx</u> 0.02	CO2 378	NMOG 0	NonMeth HC 0.015	
	Odometer 4239 M	MPG 23.4			MFR Lab:	Volkswagen A0	3, Dept EASZ/1	
	٨	/IPG is 2.96 % hig	gher than EPA	MPG	Dyno: Fuel:	21 61 Tier 2 Cert (Gasoline	
	I have valida	ated the data in a	ccordance with	the requirements		2s		
				200,9	7 Date:	Sligh	0	
	William Sand Pro	y:		60-11	/ Date:	011011	tor.	

Page 2 of 2

8/12/2010 2:32 PM 20080609183200

VTAURdxxx.xls

Print Time 12-Aug-2010 14:32

v100414 - d329 ___EPAVDAEm100811092037

NVFEL Laboratory Test Data

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data Test Number: 2010-0242-004 Vehicle I Vehicle ID: VW416 80218

Test Information Seren Stable

Test Date: 8/11/2010

MFR Name AUDI

PARTICULATE

ADX

Key Start: 09:51:45 / 10:07 Fuel Container ID: F00023

MFR Codes: 640

Config #: 00

AL PROTES	Calc		61 Tier 2 Cert To 21 Federal fuel 2	est Fuel 2-day exhaust (w/ca		Config #: Transmission: Shift Schedule: ginning Odometer: Drive Schedule: Soak Period:	AUTO A06400035 004484.0 MI ftp3bag 19.8 hours	
Dodinijak	Parit I	Filler	***			produces contribute and contribute a	All filter weights are co	
Particulate	<u>Filter</u>	<u>Filter</u>	<u>Tare</u>	<u>Gross</u>	Net Wt	<u>Total Mass</u>	<u>Total Mass</u>	<u>Filter</u>
Dhass 1	Sampler	No. 38186	(Pre Wt)	(Post Wt)	mg	mg	mg/mi	comment
Phase 1	A B	38187		143.6477 145.8274	0.01418 0.00857	8.970 5.408	2.502 1.508	
	C	38188		142.9646	0.01459	9.269	2.586	
Re	marks:							r
Phase 2	Α	38189	143.0893	143.0980	0.00868	5.465	1.421	
110002	В	38190		143.3700	0.01458	9.216	2.396	
	c	38191		145.1445	0.00797	5.013	1.303	
Re	marks:						*	
Phase 3	Α	38192	146.4261	146.4349	0.00876	5.532	1.536	
<u> </u>	В	38193		145.7358	0.01197	7.562	2.099	
	c	38194		145.6389	0.01267	8.042	2.233	
Re	marks:					:		
Phase 4								
Rei	marks:	This test has par	ticulate results.					
Average Resu	ilts				Net Wt	Total Mass	Total Mass	
					mg	mg	mg / mi	
	Phase 1				0.01245	7.882	2.199	
	Phase 2				0.01041	6.565	1.707	
	Phase 3				0.01113	7.046	1.956	
			All filter weights are c	orrected for buoyancy.				
	ighted All Filte		'¥ -				1.87745	
Reference Fill			<u>Tare</u>	<u>Gross</u>	<u>Net Wt</u>	Stability Check		D329 - FWD
2% of Avg N	et or 0.01 mg	No.	(Pre Wt)	(Post Wt)	mg	PASS/FAIL	Inertia:	
	0.01	1	143.82859	143.82809	-0.00050	PASS	EPA Set Co A:	
		2	143.60554	143.60704	0.00150	PASS	EPA Set Co B: EPA Set Co C:	
							Emissions Bencl	Mexa 7200dle

8/12/2010 2:32 PM

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20080609183200

Page 1 of 2

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Print Time 12-Aug-2010 14:32

v100414 - d329

Final Laborat Test Number: 2 AMBER Buoyancy imestamp Factor 0/10 14:21 1.0011129 2/10 11:57 1.0011080 Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF) Specific Humidity (grains/lbm)		Chamber Temp (°F) 71.5 71.4	Dew Point (°F) 49.1 48.9		VW416 80218 Last Change in Status Status @ timestamp NORM @ 08/06/10 18:29:09 NORM @ 08/06/10 18:29:09
AMBER Buoyancy imestamp Factor 0/10 14:21 1.0011129 2/10 11:57 1.0011080 Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF)	Operator (id) 022298 022298 Phase 1 29.00	Chamber Temp (°F) 71.5 71.4	(°F) 49.1 48.9	Barometer ("Hg) 29.04	Last Change in Status Status @ timestamp NORM @ 08/06/10 18:29:09
imestamp Factor 0/10 14:21 1.0011129 2/10 11:57 1.0011080 Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF)	(id) 022298 022298 Phase 1 29.00	(°F) 71.5 71.4 Phase 2	(°F) 49.1 48.9	("Hg) 29.04	Status @ timestamp NORM @ 08/06/10 18:29:09
0/10 14:21 1.0011129 2/10 11:57 1.0011080 IS Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF)	022298 022298 Phase 1 29.00	71.5 71.4 Phase 2	49.1 48.9	29.04	NORM @ 08/06/10 18:29:09
Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF)	022298 Phase 1 29.00	71.4 Phase 2	48.9		
Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF)	29.00	Anna in the contract of the co	Phaco 3		
Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF)	29.00	Anna in the contract of the co		Phase 4	
Avg Cell Temp (degF) Dew Point (degF)	20129 1 20129	29.00	28.99		
Dew Point (degF)		74.83	74.93		
	50.78	51.10	50.94		
	56.92	57.60	57.28		
NOx Corr Factor	0.9217	0.9244	0.9231		
Dilution Factor	13.61	19.54	15.06		
CFV Vmix (scf @68F)	2807.29	4807.71	2800.51		
Sample Volume A (scf @68F)	4.460	7.671	4.457		
Sample Volume B (scf @68F)	4.468	7.645	4.454		
Sample Volume C (scf @68F)	4.439	7.679	4.433		
Sample Volume D (scf @68F)				4	
Volume Average (scf @68F)	4.455	7.665	4.448		
Total Vmix (scf @68F)	2820.65	4830.71	2813.85		
Phase Time (sec)	506.50	870.20	506.60		
Distance (miles)	3.585	3.846	3.602		
PSU Probe A (degC)					
PSU Probe B (degC)					·
PSU Probe C (degC)					
PSU Dil Air A (degC)	41.7	41.3	41.3		
PSU Dil Air B (degC)	43.8	43.3	43.2		
PSU Dil Air C (degC)	40.1	39.9	40.1		
PSU Filter A (degC)	45.0	47.0	44.9		
PSU Filter B (degC)	46.7	46.0	45.4		
PSU Filter C (degC)	44.6	44.6	44.9		
PSU Dil Flow A (Ipm)	29.9	30.0	29.9		
PSU Dil Flow B (Ipm)	30.0	29.9	29.9		
PSU Dil Flow C (lpm)	29.9	30.0	29.9		
PSU C Proportionality					
	ample Volume B (scf @68F) ample Volume C (scf @68F) ample Volume D (scf @68F) Volume Average (scf @68F) Total Vmix (scf @68F) Phase Time (sec) Distance (miles) PSU Probe A (degC) PSU Probe B (degC) PSU Probe C (degC) PSU Dil Air A (degC) PSU Dil Air B (degC) PSU Dil Air C (degC) PSU Filter A (degC) PSU Filter B (degC) PSU Filter C (degC) PSU Dil Flow A (Ipm) PSU Dil Flow B (Ipm)	Ample Volume B (scf @68F)	sample Volume B (scf @68F) 4.468 7.645 ample Volume C (scf @68F) 4.439 7.679 ample Volume D (scf @68F) 4.455 7.665 Volume Average (scf @68F) 2820.65 4830.71 Phase Time (sec) 506.50 870.20 Distance (miles) 3.585 3.846 PSU Probe A (degC) PSU Probe B (degC) PSU Probe B (degC) PSU Probe C (degC) 41.7 41.3 PSU Dil Air A (degC) 43.8 43.3 PSU Dil Air C (degC) 40.1 39.9 PSU Filter A (degC) 45.0 47.0 PSU Filter B (degC) 46.7 46.0 PSU Filter C (degC) 44.6 44.6 PSU Dil Flow A (Ipm) 29.9 30.0 PSU Dil Flow C (Ipm) 29.9 30.0 PSU A Proportionality PSU B Proportionality	sample Volume B (scf @68F) 4.468 7.645 4.454 ample Volume C (scf @68F) 4.439 7.679 4.433 ample Volume D (scf @68F) 4.455 7.665 4.448 Total Vmix (scf @68F) 2820.65 4830.71 2813.85 Phase Time (sec) 506.50 870.20 506.60 Distance (miles) 3.585 3.846 3.602 PSU Probe A (degC) PSU Probe B (degC) PSU Probe B (degC) PSU Dil Air A (degC) 41.7 41.3 41.3 PSU Dil Air B (degC) 43.8 43.3 43.2 PSU Dil Air C (degC) 40.1 39.9 40.1 PSU Filter A (degC) 45.0 47.0 44.9 PSU Filter B (degC) 46.7 46.0 45.4 PSU Dil Flow A (lpm) 29.9 30.0 29.9 PSU Dil Flow B (lpm) 30.0 29.9 29.9 PSU Dil Flow C (lpm) 29.9 30.0 29.9 PSU A Proportionality <	tample Volume B (scf @68F)

ADX

NVFEL Laboratory Test Data

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2010-0242-007 Test Date: 8/11/2010

Vehicle ID: VW416 80218 MFR Name AUDI

Key Start: 13:56:49

Fuel Container ID: F00023

MFR Codes: 640

Fuel Type: 61 Tier 2 Cert Test Fuel

Config #: 00

Test Procedure: 90 US06 Calculation Method: Gasoline

Transmission: AUTO Shift Schedule: A06400020

Pretest Remarks:

Beginning Odometer: 004535.0 MI

Drive Schedule: us06 us06

Bag Data	HC-FID	<u>CO</u>	<u>NOx</u>	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	3.864	49.568	0.703	1.014	2.253	~ . ,
Ambient	3.176	1.154	0.030	0.043	1.994	
Net Concentration	0.930	48.502	0.675	0.974	0.411	0.486

Remarks:

Phase 2

Sample Ambient

Net Concentration

Test Information

Remarks:

Phase 3

Sample

Ambient

Net Concentration

Remarks:

Phase 4

Sample

Ambient

Net Concentration

Remarks: This test has particulate results.

Results	HC-FID	CO	NOx	CO2	<u>CH4</u>	NMHC / NMOG	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Phase	1 0.011	1.130	0.024	356.5	0.005	0.006 / 0.006	24.811

(NMOG=1.04xNMHC)

Fuel Economy

Gasoline MPG Phase 1 24.79

Dyno Settings

Dyno #: D329 - FWD

Inertia: 3875 EPA Set Co A: 15.56

EPA Set Co B: -0.1295 EPA Set Co C: 0.02613

Emissions Bench: Mexa 7200dle

v100414 - d329

EPAVDAEm100811132623

Page 1 of 2

Print Time 12-Aug-2010 13:43

A STATE OF THE STA			Laboratory To			de kindelik en distillere de ermen men de melande komme erke den de erken geler den glege geler de gregor gele	CVS
	Final Laborat Test Number: 2		ts- Refer to VER	IFY Reports for		: VW416 80218	
Results Phase 1	HC-FID (grams) 0.086	CO (grams) 9.041	NOx (grams) 0.192	(grams) 2853.6	CH4 (grams) 0.044	NMHC (grams) 0.045	Meth Respons 1.079
Avg Ce De Specific Humidi N CO2 CFV Vn Total Vi	rometer (inHg) Il Temp (degF) w Point (degF) ty (grains/lbm) Ox Corr Factor Dilution Factor nix (scf @68F) mix (scf@68F) ate Avg (scfm)	Phase 1 28.98 74.80 51.39 58.27 0.9271 13.146 5637.95 5653.71	Phase 2	Phase 3	Phase 4		
Phas Di	an Placement: U se Time (secs) stance (miles) is Time (secs)	SO6 Only - One 601.60 8.004 85.0	e Large Fan - Dov	wn - Front			
ASD Test Popults 6	ar Propodure 00 L	ične:					
-	or Procedure 90 U		, c'e ano	200 mg ac	a va siin tin		
MFR Number 1E+07	<u>HC</u> 0.024	<u>CO</u> 2.92	<u>NOx</u> 0.069	<u>CO2</u> 352	NMOG 0	NonMeth HC 0.0151	
Odometer 4426 M M	MPG 24.9 PG is 0.46 % hig	her than EPA N	ИPG	Dyno:	Volkswagen AG 21 61 Tier 2 Cert G		
I have valida	ted the data in a	cordance with	the requirements	of TP 730		16	
Välidated By	:	TAD		Date:	8.12	, <u> </u>	

8/12/2010 1:43 PM

v100414 - d329 ____EPAVDAEm100811132623

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Page 2 of 2

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NVFEL Laboratory Test Data

PARTICULATE

ADX

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2010-0242-007

Vehicle ID: VW416 80218

Test Information

Test Date: 8/11/2010 Key Start: 13:56:49

MFR Name AUDI MFR Codes: 640

Fuel Container ID: F00023 Fuel Type: 61 Tier 2 Cert Test Fuel Config #: 00

Test Procedure: 90 US06

Transmission: AUTO
Shift Schedule: A06400020

Cono			n Method: (Remarks:	Sasoline		Be	ginning Odometer: Drive Schedule:		
								All filter weights are co	rrected for buoyan
Particulate Phase 1	<u>Filter</u> Sampler	A B C	Filter No. 38180 38181 38182	Tare (Pre Wt) 147.4178 145.2217 145.6573	<u>Gross</u> (Post Wt) 147.4265 145.2308 145.6693	Net Wt mg 0.00867 0.00909 0.01199	Total Mass mg 9.342 9.785 12.902	Total Mass mg / mi 1.167 1.223 1.612	<u>Filter</u> comment
Phase 2	Remarks:								٠
Phase 3	Remarks:								٠
Phase 4	Remarks:						٠		·
į	Remarks:	<u>This t</u>	est has partic	culate results.			÷		*-
Average Re	esult <u>s</u> Phase	1	Notation Annual Control and Co	minimicos serindos a lota il meno den en en en escone a cum anta a en		Net Wt mg 0.00992	Total Mass mg 10.676	Total Mass mg / mi 1.334	ome emicromatecular acida acid
			AI	I filter weights are c	orrected for buoyancy.				
	F:11 C4-1-1114	Observe	4						
	Filter Stabilit Net or 0.01 n 0.	ng	No. 1 2	<u>Tare</u> (Pre Wt) 143,82709 143.60404	<u>Gross</u> (Post Wt) 143.82767 143.60853	Net Wt mg 0.00058 0.00449	Stability Check PASS/FAIL PASS PASS	EPA Set Co B: EPA Set Co C:	15.56 -0.1295
								Emissions Bencl	Mexa 7200dle
/100414 - d32	9 EPAVDAEI	n10081113	2623		Page 1 of 2		**************************************		12-Aug-2010 13

8/12/2010 1:44 PM

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Print Time 12-Aug-2010 13:44

v100414 - d329

		Einel Laborat		Laboratory Tes		Service No.	PARTICULA [*]
/		Test Number: 2		ults- Refer to VERIF	Y Reports for		: VW416 80218
	CHAMBER Timestamp	Buoyancy Factor	Operator (id)	Chamber Temp (°F)	Dew Point (°F)	Barometer ("Hg)	Last Change in Status Status @ timestamp
<u>Pre-test</u> Post-test	8/10/10 13:35 8/12/10 12:54	1.0011129 1.0011079	000000 022298	71.5 71.4	49.1 48.8	29.04 28.91	NORM @ 08/06/10 18:29:09 NORM @ 08/06/10 18:29:09
est Condi			Phase 1	Phase 2	Phase 3	Phase 4	olikost tuon na, espositiises (eissi irrennys kiriin 3 sääken klast kongositas väi sääkinet kirinesiä eisäkenk
		arometer (inHg)	28.98				
		ell Temp (degF) ew Point (degF)	74.80 51.39				
		dity (grains/lbm)	58.27				
		NOx Corr Factor	0.9271				
	*	Dilution Factor	13.15				
	CFV V	mix (scf @68F)	5637.95				
		ie A (scf @68F)	5.250				
		e B (scf @68F)	5.250				
	Sample Volum	e C (scf @68F)	5.253				
		e D (scf @68F)					
San	nple Volume Aver		5.251				
		mix (scf @68F)	5653.71				
		nase Time (sec)	601.60				
	[Distance (miles)	8.004				
	PSU	Probe A (degC)					
	PSU	Probe B (degC)					
	PSU I	Probe C (degC)					
		Dil Air A (degC)	41.5				
		Dil Air B (degC)	43.4				
		Dil Air C (degC)	40.4				
		Filter A (degC)	45.4				
		Filter B (degC)	46.5				
		Filter C (degC)	45.1				
		Oil Flow A (Ipm) Oil Flow B (Ipm)	29.7 29.7				
		Dil Flow C (Ipm)	29.7 29.6				
		Proportionality	25.0				
		Proportionality					
		Proportionality					
i	have validated th	ne data in accorda	nce with the re	equirements of TP 73	8 0		
Ì	/alidated By:	·	W		Date: <u>S</u>	1210	
00414 - d329	B EPAVDAEm100	811132623		Page 2 of 2			Print Time 12-Aug-2010 1

06/20/2017

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Fri 8/13/2010 8:12:27 PM **Subject:** RE: Tiquan test results

Looks like they are in Verify now too.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 08/13/2010 04:10 PM Subject: RE: Tiquan test results

Thanks, Jim.

Bob

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Friday, August 13, 2010 4:04 PM

To: Rodgers, William Cc: Hart, Robert (VWoA) Subject: Tiquan test results

Showed up but Hwy is missing.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Hart, Robert (VWoA)"

Sent: Fri 8/13/2010 8:14:06 PM

Subject: RE: Tiquan test results

mailto:Snyder.Jim@epamail.epa.gov

Yes, I already have them.

Thanks,

Bob

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Friday, August 13, 2010 4:12 PM

To: Hart, Robert (VWoA) Subject: RE: Tiquan test results

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"Hart, Robert (VWoA)" < Robert. Hart@vw.com>

To:

Jim Snyder/AA/USEPA/US@EPA

Date:

08/13/2010 04:10 PM

Subject:

RE: Tiquan test results

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Bob

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Friday, August 13, 2010 4:04 PM

To: Rodgers, William Cc: Hart, Robert (VWoA) Subject: Tiquan test results

Showed up but Hwy is missing.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

To: Jim Snyder/AA/USEPA/US@EPA[]

Cc: "Rech, Lothar (I/EA-523)" [Lothar.Rech@AUDI.DE]; Geisen, Anna (I/EA-523)" [anna.geisen@AUDI.DE]; Thomas, Suanne" [Suanne.Thomas@vw.com]; Johnson, Stuart" [Stuart.Johnson@vw.com]; hris Nevers/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA:Stephen Healy/AA/USEPA/US@EPA:Linc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;"Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; oel Ball/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;"Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; tephen Healy/AA/USEPA/US@EPA:Linc Wehrly/AA/USEPA/US@EPA:Martin Reineman/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;"Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; inc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;"Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; artin Reineman/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;"Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; om Anderson/AA/USEPA/US@EPA;"Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]

From: "Kata, Leonard"

Sent: Sun 8/15/2010 10:40:16 PM

Subject: Accepted: VW/Audi Meeting with EPA: Misc issues

To: christoph.kohnen@vw.com[] Cc: Bcc: From: CN=Lvnn Sohacki/OU=AA/O=USEPA/C=US Tue 8/17/2010 1:33:42 PM Sent: Fw: In-use vehicles scheduled for next week Subject: In-Use Parameters Form.xls Hi, Christoph. We will need the parameters for these vehicles this week. Please get them to me when you can. Thank you.

Lynn Sohacki **Environmental Protection Agency** 734-214-4851 734-214-4869 (fax)

---- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 09:32 AM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>

Date: 08/11/2010 09:17 AM

Subject: In-use vehicles scheduled for next week

Good morning.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0092 (2008 VW/Passat) 0900 vehicle pick up on 8/17/10 Ex. 6 (Tuesday) N148RXX-0184 (2008 VW/Passat) 0900 vehicle pick up on 8/19/10 Ex. 6 (Thursday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity 40% tank capacity tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]; Rodgers, William"

[William.Rodgers@vw.com]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 8/17/2010 2:59:23 PM Subject: EPA hwy results of 2011 Tiquan

2011 VW Tiquan HWY.pdf

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

CERT

ADX

NVFEL Laboratory Test Data

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2010-0242-005 Vehicle ID: VW416 80218

Test Date: 8/11/2010 Key Start: 11:10:38

2010 MFR Name AUDI 38 MFR Codes: 640

Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 3 Calculation Method: Gasoline

Pretest Remarks:

Config #: 00 Transmission: AUTO

Shift Schedule: A06400036

Beginning Odometer: 004495.0 MI Drive Schedule: hwfet_hwfet

Bag Data Phase 1	HC-FID (ppmC)	CO (ppm)	NOx (ppm)	CO2 (%)	CH4 (ppm)	NonMeth HC (ppmC)
Sample	3.461	6.688	0.480	1.155	2.469	
Ambient	2.535	0.141	0.026	0.042	2.126	
Net Concentration	1.145	6.559	0.456	1.117	0.526	0.577

Remarks:

Phase 2

Sample Ambient Net Concentration

Test Information

Remarks:

Phase 3

Sample Ambient Net Concentration

Remarks:

Phase 4

Sample Ambient Net Concentration

Remarks: This test has particulate results.

Results	HC-FID	<u>CO</u>	<u>NOx</u>	CO2	CH4	NMHC / NMOG	Vol MPG
Phase 1	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	0.008	0.089	0.009	237.6	0.004	0.004 / 0.004	37.402

(NMOG=1.04xNMHC)

Fuel Economy		Gasoline MP	3		Coastdwn secs:	17.76	Dyno Settings	Dyno #:	D329 - FWD
	Phase 1	37.36				17.78		Inertia:	3875
						17.76		EPA Set Co A:	15.56
								EPA Set Co B:	-0.1295
								EPA Set Co C:	0.02613
1			2.		A:				
			***************************************	*		17.76	En	nissions Bench:	Mexa 7200dle
v100414 - d329 E	PAVDAEm1008	311104024			Page 1 of 2	16 1444		Print Tin	ne 16-Aug-2010 13:03

06/20/2017

		Final Laborat	ory Test Resul	Laboratory To ts- Refer to VER		Official Data		cvs
		Test Number: 2	010-0242-005		"	Vehicle ID	: VW416 80218	
Results	Phase 1	HC-FID (grams) 0.079	<u>CO</u> (grams) 0.909	NOx (grams) 0.096	<u>CO2</u> (grams) 2432.9	<u>CH4</u> (grams) 0.042	NMHC (grams) 0.040	Meth Respon 1.079
Test Condit	lone		Phase 1	Dhoco 2	Dhone 2	Dhoon d		
Test Condit	Ba Avg Ce De Specific Humic N CO2 CFV V Total V	arometer (inHg) ell Temp (degF) ew Point (degF) dity (grains/lbm) IOx Corr Factor Dilution Factor mix (scf @68F) /mix (scf@68F)	Phase 1 29.00 74.57 51.50 58.47 0.9279 11.588 4185.47 4205.44	Phase 2	Phase 3	<u>Phase 4</u>		
	CVS Flow F	Rate Avg (scfm)	328.23					
	Pha D	an Placement: O se Time (secs) listance (miles) sis Time (secs)	ne Fan - Down 765.10 10.241 74.8	- Front				
IFR Test Re		or Procedure 3 HV	VFE:					
	MFR Number	<u>HC</u>	<u>CO</u> 0.22	<u>NOx</u> 0.021	<u>CO2</u> 246	NMOG 0	NonMeth HC 0.0046	
	1E+07	0.0081	Ville					
	1E+07 Odometer 4266 M	MPG 36		rno.		/olkswagen AG	, Dept EASZ/1	
	1E+07 <u>Odometer</u> 4266 M N	MPG 36 1PG is -3.65 % lov	wer than EPA M		Dyno: 2 Fuel: (* *	
	1E+07 <u>Odometer</u> 4266 M N	MPG 36	wer than EPA M		Dyno: 2 Fuel: (21	* *	
	1E+07 <u>Odometer</u> 4266 M N	MPG 36 MPG is -3.65 % low	wer than EPA M		Dyno: 2 Fuel: 6 of TP 730	21	asoline	

8/16/2010 1:03 PM

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NVFEL Laboratory Test Data

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2010-0242-005

Test Date: 8/11/2010

Key Start: 11:10:38

Fuel Container ID: F00023

Test Information

PARTICULATE

ADX

Vehicle ID: VW416 80218 MFR Name AUDI

MFR Codes: 640

Config #: 00

THE PROTE		Calcula	Fuel Type: 6 It Procedure: 3 Ition Method: 6 est Remarks:		est Fuel	Beç	Transmission: Shift Schedule: ginning Odometer: Drive Schedule:	A06400036 004495.0 MI	
								All filter weights are co	rrected for buoyancy
Particulate Phase 1	<u>Filter</u> Sampler	A B C	Filter No. 38177 38178 38179	<u>Tare</u> (Pre Wt) 147.5069 146.5628 144.7838	Gross (Post Wt) 147.5235 146.5791 144.7892	Net Wt mg 0.01666 0.01627 0.00546	<u>Total Mass</u> mg 10.443 10.210 3.501	Total Mass mg / mi 1.020 0.997 0.342	<u>Filter</u> comment
F	Remarks:						•		
Phase 2									
R	Remarks:								
Phase 3									
R Phase 4	temarks:							ř	,
nerian katika katik									
R	temarks:	This	s test has partic	culate results.			¥	**	**
Average Res	sults Phase	e 1	and the second s	and the second s		Net Wt mg 0.01280	Total Mass mg 8.051	<u>Total Mass</u> mg / mi 0.786	
			All	filter weights are co	prected for buoyancy.				
Reference F 2% of Avg I	Net or 0.01 r		No 1 2	Tare (Pre Wt) 143.82709 143.60404	<u>Gross</u> (Post Wt) 143.82896 143.60691	Net Wt mg 0.00187 0.00287	Stability Check PASS/FAIL PASS PASS	Dyno #: Inertia: EPA Set Co A: EPA Set Co B: EPA Set Co C:	15.56 -0.1295

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Emissions Bencl Mexa 7200dle

Print Time 16-Aug-2010 13:04

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EPAVDAEm100811104024

6				Laboratory Te			PARTICULAT
1 22		Final Laborat	ory Test Resi	ults- Refer to VERIF	Y Reports for		121.112.202.02
NEIGHING	CHAMBER	Test Number: 2					VW416 80218
AFIOLINAC	Timestamp	<u>Buoyancy</u> Factor	Operator (24)	Chamber Temp	Dew Point	<u>Barometer</u>	Last Change in Status
re-test	8/10/10 13:35	1.0011129	(id) 022298	(°F)	(°F)	("Hg)	Status @ timestamp
ost-test	8/12/10 14:21	1.0011129	022298	71.5	49.1	29.04	NORM @ 08/06/10 18:29:09
<u> </u>	0/12/10 14.21	1.0011071	022296	71.6	48.7	28.90	NORM @ 08/06/10 18:29:09
est Cond	itions		Phase 1	Phase 2	Phase 3	Phase 4	
	В	arometer (inHg)	29.00				
		ell Temp (degF)	74.57				
	D	ew Point (degF)	51.50				
	Specific Humi	dity (grains/lbm)	58.47				
		NOx Corr Factor	0.9279				
		Dilution Factor	11.59				
	CFV V	mix (scf @68F)	4185,47				
		e A (scf @68F)	6.710				
		e B (scf @68F)	6.700				
	Sample Volum	e C (scf @68F)	6.564				
	Sample Volum	e D (scf @68F)					
San	nple Volume Aver	age (scf @68F)	6.658				
		mix (scf @68F)	4205.44				
*	Pi	ase Time (sec)	765.10				
	[Distance (miles)	10.241				
	PSU	Probe A (degC)					
	PSU	Probe B (degC)					
	PSU I	Probe C (degC)					
		Oil Air A (degC)	41.5				
		Oil Air B (degC)	43.3				
		Oil Air C (degC)	40.2				
		Filter A (degC)	45.3				
		Filter B (degC)	47.8				
		Filter C (degC)	45.7				
		Oil Flow A (Ipm)	29.8				
		Oil Flow B (Ipm)	29.8				
		il Flow C (lpm)	29.9				
		Proportionality					
		Proportionality					
		Proportionality					
	5						
1	have validated th	e data in accordan	ce with the re	quirements of TP 73	0		
1	/alidated By:		H		Date:	8-16-1	0
		700					
00414 - d329	EPAVDAEm1008	11104024		Page 2 of 2			Print Time 16-Aug-2010 13

2017-FFP_001328

Paired Data Offset of ≥3% Report

	MFR Audi	Num	MPH	EPA Lbs	NAS. I ba	Load		veh EPA	l. NASu
processor and the second secon		640	4				target		
VID:	VW416 80218		10	16.878	24.34	44.21%	40.81	23.932	16.47
	Config 0		20	23.422	29.7	26.80%	49.56	26.138	19.86
			30	35.192	40.08	13.89%	63.25	28.058	23.17
Test Numbers	<u>Date</u>	Dyno	40	52.188	55.48	6.31%	81.88	29.692	26.4
242004 FTP	8/11/10	D329	50	74.41	75.9	2.00%	105.45	31.04	29.55
242005 HFET	8/11/10	D329	60	101.858	101.34	-0.51%	133.96	32.102	32.62
US06									

Offset Summary

			cle+Set= Target
Quickcheck CE) %	Diff	-4.63%

		<u>EPA</u>		MFG	Mfg Diff%			<u>EPA</u>	MFG	Mfg Diff%
FTP	FE THC CO NOx CO2 CH4 NMHC		22.73 0.02533 0.47508 0.01677 389.924 0.021	23.4 0.0202 0.49 0.02 378.000	3.14% 19.26% -3.06% #DIV/0!	US06	FE (Bag2) FE (Total) THC CO NOx CO2 CH4 NMHC			#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!
HFET	FE THC CO NOX CO2 CH4 NMHC		37.36 0.008 0.089 0.009 237.6	36 0.0081 0.22 0.021 246 0.0046	1.25% 147.19% 133.33%	Dyno Set Coeffs. A B C	EPA 15.56 -0.1295 0.02613	-0.217	0.134	

Finding:

FTP Test results and related information indicate results are

valid

HFET Test results and related information indicate results are

valid

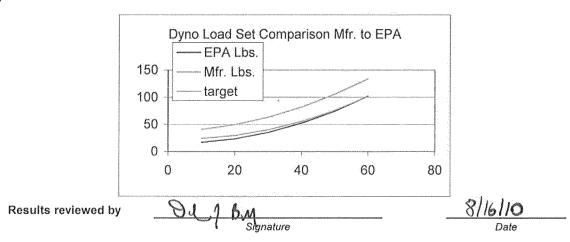
US06

Observations on finding:

1 EPA RLD values within 1 lb.

2

3



VW FOIA, EPA

06/20/2017

2017-FFP_001329

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA:CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 8/17/2010 3:02:54 PM

Subject: Audi Meeting with EPA: Discussion topics

Audi AG has provided a more refined list of discussion topics. These are shown below:

EPA Meeting

- * Idle stop system Last mode strategy
- * Worst case mode for emission certification and OBD emission impact tests
- * EPA position on Evap Test procedure for PHEV
- * HEV application for certification
- * New emission related components for MY 2012 GHG
- * MIL on and additional information / text message
- * Audi Hybrid and battery cooling at the dynamometer
- * Clarification of dynamometer test mode for future vehicles

See you on Thursday.

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; eonard.Kata@vw.com;CN=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 8/17/2010 3:02:58 PM

Subject: Audi Meeting with EPA: Discussion topics

Audi AG has provided a more refined list of discussion topics. These are shown below:

EPA Meeting

- * Idle stop system Last mode strategy
- * Worst case mode for emission certification and OBD emission impact tests
- * EPA position on Evap Test procedure for PHEV
- * HEV application for certification
- New emission related components for MY 2012 GHG
- * MIL on and additional information / text message
- * Audi Hybrid and battery cooling at the dynamometer
- Clarification of dynamometer test mode for future vehicles

See you on Thursday.

To: Lynn Sohacki/AA/USEPA/US@EPA[]

Cc: "Johnson, Stuart" [Stuart.Johnson@vw.com]

From: "Kohnen, Christoph (VWGoA)"
Sent: Tue 8/17/2010 8:33:47 PM

Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

I am actually in Germany. Stuart Johnson, Manager at EEO is informed to help you. Please send him a copy of any mail you send to me.

Thank you!

Kind regards

Christoph

Dr. Christoph Kohnen

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road

Auburn Hills, MI 48326 Phone: (248) 754-4201 Cell: (248) 408-7548

FAX: (248) 754-4207

E-Mail: christoph.kohnen@vw.com

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Tuesday, August 17, 2010 9:34 AM

To: Kohnen, Christoph (VWGoA)

Subject: Fw: In-use vehicles scheduled for next week

Hi, Christoph.

We will need the parameters for these vehicles this week. Please get them to me when you can.

Thank you.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

---- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 09:32 AM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>

Date: 08/11/2010 09:17 AM

Subject: In-use vehicles scheduled for next week

Good morning.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0092 (2008 VW/Passat) - **Ex. 6** 0900 vehicle pick up on 8/17/10 (Tuesday)

N148RXX-0184 (2008 VW/Passat) - **Ex. 6** 0900 vehicle pick up on 8/19/10 (Thursday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity 40% tank capacity tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

Cc: [] Bcc: [] From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US Sent: Tue 8/17/2010 8:54:55 PM Subject: Fw: In-use vehicles scheduled for next week In-Use Parameters Form.xls					
Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)					
Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 04:54 PM					
From: Lynn Sohacki/AA/USEPA/US To: christoph.kohnen@vw.com Date: 08/17/2010 09:33 AM Subject: Fw: In-use vehicles scheduled for next week					
Hi, Christoph.					
We will need the parameters for these vehicles this week. Please get them to me when you can.					
Thank you.					
Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)					
Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 09:32 AM					
From: Lynn Sohacki/AA/USEPA/US To: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com> Date: 08/11/2010 09:17 AM Subject: In-use vehicles scheduled for next week</christoph.kohnen@vw.com>					
Good morning.					
Listed below is the information for the vehicles that we have scheduled for next week.					
N148RXX-0092 (2008 VW/Passat) Ex. 6 , 0900 vehicle pick up on 8/17/10 (Tuesday)					
N148RXX-0184 (2008 VW/Passat) { Ex. 6 0900 vehicle pick up on 8/19/10 (Thursday)					
Please send the following to me for these vehicles before pick-up. Please use the attached form:					

"Johnson, Stuart" [Stuart.Johnson@vw.com]

To:

VW FOIA, EPA 06/20/2017 2017-FFP_001334

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 8/17/2010 8:55:11 PM Subject: Re: Diesel Shift Tables

Bob, since this diesel uses the same schedules as the gas engines, is the US06 the same as the Tiquan we just tested? It uses 0035, 0036, and 0020 for US06.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" < Robert. Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 08/13/2010 08:47 AM Subject: Diesel Shift Tables

Hello Jim,

According to our diesel cert engineer, shift tables 590 0035 (FTP) and 590 0036 (HFET) can be used as indicated in the MY 2009 Application Common Sections (Section 12). These shift tables should already be in the EPA Lab database. They are the standard VW gasoline engine M6 shift tables.

Here are the upshift points by speed.

UP-SHIFT

1 - 2 15 mph

2-3 25 mph

3 - 4 40 mph

4-5 47 mph

5 - 6 52 mph

Due to the gear ratios in the diesel transmission the following declutch points must be used:

DECLUTCH

6-0 30 mph

5 - 0 25mph

4-0 20mph

I am still waiting for the US06 schedule.

Best regards,

Bob Hart

From: Hart, Robert (VWoA)

Sent: Wednesday, August 11, 2010 4:00 PM

To: 'Snyder.Jim@epamail.epa.gov'

Subject: Diesel Shift Tables

Hello Jim,

I will contact Germany for to see if any of the shift tables currently in the system will work for the M6 diesel. I should have an answer for you by the end of the week.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: "Johnson, Stuart" [Stuart.Johnson@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Tue 8/17/2010 8:57:10 PM

Subject: Resend Fw: In-use vehicles scheduled for next week

In-Use Parameters Form.xls

Hi, Stuart.

Sorry the last e-mail got sent before I had a chance to write something.

Christoph said you would be able to get parameters for me. The needed information is on the form below. Please let me know if you have any questions.

Thanks.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

---- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 04:55 PM -----

From: Lynn Sohacki/AA/USEPA/US
To: christoph.kohnen@vw.com
Date: 08/17/2010 09:33 AM

Subject: Fw: In-use vehicles scheduled for next week

Hi, Christoph.

We will need the parameters for these vehicles this week. Please get them to me when you can.

Thank you.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 09:32 AM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>

Date: 08/11/2010 09:17 AM

Subject: In-use vehicles scheduled for next week

Good morning.

VW FOIA, EPA

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0092 (2008 VW/Passat) -	Ex. 6	0900 vehicle pick up on 8/17/10 (Tuesday)
N148RXX-0184 (2008 VW/Passat) -	Ex. 6	, 0900 vehicle pick up on 8/19/10 (Thursday

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Hart, Robert (VWoA)"
Sent: Wed 8/18/2010 11:32:27 AM
Subject: RE: Diesel Shift Tables

Hello Jim,

The shift schedules for the diesel use the same upshift points as the gasoline engines for the FTP and HWY but the declutch points are different as noted in my original message.

The cert engineer said that he will have to get back to me on the USO6 shift schedule. The diesel may require additional downshifts for the USO6.

Bob Hart

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Tuesday, August 17, 2010 4:55 PM

To: Hart, Robert (VWoA)
Subject: Re: Diesel Shift Tables

Bob, since this diesel uses the same schedules as the gas engines, is the US06 the same as the Tiquan we just tested? It uses 0035, 0036, and 0020 for US06.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From:

"Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To:

Jim Snyder/AA/USEPA/US@EPA

Date:

08/13/2010 08:47 AM

Subject:

Diesel Shift Tables

Hello Jim,

According to our diesel cert engineer, shift tables 590 0035 (FTP) and 590 0036 (HFET) can be used as indicated in the MY 2009 Application Common Sections (Section 12). These shift tables should already be in the EPA Lab database. They are the standard VW gasoline engine M6 shift tables.

Here are the upshift points by speed.

UP-SHIFT

- 1 2 15 mph
- 2-3 25 mph
- 3 4 40 mph
- 4-5 47 mph
- 5-6 52 mph

Due to the gear ratios in the diesel transmission the following declutch points must be used:

DECLUTCH

- 6-0 30 mph
- 5-0 25mph
- 4-0 20mph

I am still waiting for the US06 schedule.

Best regards,

Bob Hart

From: Hart, Robert (VWoA)

Sent: Wednesday, August 11, 2010 4:00 PM

To: 'Snyder.Jim@epamail.epa.gov'

Subject: Diesel Shift Tables

Hello Jim,

I will contact Germany for to see if any of the shift tables currently in the system will work for the M6 diesel. I should have an answer for you by the end of the week.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Johnson, Stuart"

Sent: Wed 8/18/2010 11:49:01 AM

Subject: RE: Resend Fw: In-use vehicles scheduled for next week

Hello Lynn,

Thanks for the email. I think you saw a note from Christoph referring you to me. I meant to tell you in the future you can send all information regarding testing to me, Sebastian Berenz and Dennis Reineke.

Sebastian works in my department and has taken over the IUVP job from Edy Popa for the next three years. Edy has returned to Germany. Sebastian's email is sebastian.berenz@vw.com

Dennis is a longtime member of our group and has prior in-use and laboratory experience, so he can act as a back-up if Sebastian or I am not available. Over the past few years your surveillance letters have come to Dennis. We left it that way because we thought for continuity it was better to have a US contact. Dennis' email is dennis.reineke@vw.com

Sebastian was out at your laboratory yesterday inspecting your first Passat and gave your staff the testing parameters. I saw your request to send the information to you electronically and we will do that. We are still waiting for a canister procedure from Germany and will send it as soon as it is received. We expect it this week.

Best Regards,

Stuart

----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Tuesday, August 17, 2010 4:57 PM

To: Johnson, Stuart

Subject: Resend Fw: In-use vehicles scheduled for next week

Hi, Stuart.

Sorry the last e-mail got sent before I had a chance to write something.

Christoph said you would be able to get parameters for me. The needed information is on the form below. Please let me know if you have any questions.

Thanks.

Lynn Sohacki Environmental Protection Agency

734-214-4851 734-214-4869 (fax) ---- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 04:55 PM -----Lynn Sohacki/AA/USEPA/US From: To: christoph.kohnen@vw.com 08/17/2010 09:33 AM Date: Subject: Fw: In-use vehicles scheduled for next week Hi, Christoph. We will need the parameters for these vehicles this week. Please get them to me when you can. Thank you. Lynn Sohacki **Environmental Protection Agency** 734-214-4851 734-214-4869 (fax) ----- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 09:32 AM -----Lynn Sohacki/AA/USEPA/US From: To: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>

08/11/2010 09:17 AM

Date:

Subject: In-use vehicles scheduled for next week

Good morning.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0092 (2008 VW/Passat) - **Ex. 6**, 0900 vehicle pick up on 8/17/10 (Tuesday)

N148RXX-0184 (2008 VW/Passat) - **Ex. 6**pick up on 8/19/10 (Thursday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity 40% tank capacity tire pressure applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

To: Cc: From: Sent:	Jim Snyder/AA/USEPA/US@EPA[] "Reisner, Axel, Dr. (EASZ/1)" [axel.reisner@volkswagen.de] "Hart, Robert (VWoA)" Wed 8/18/2010 1:01:04 PM
Subject:	Retest Request for VW Tiguan - VW416 80218 cfg. 0
Hello Jim,	
	Vince Mazaitis that Volkswagen has requested a retest of the FTP and HWFET for the VW W416 80218 cfg. 0.
Both fuel e	conomy values are more than 3% different from the manufacturer test results.
Best regard	ds,
Bob Hart	
Robert Har	t
Engineerin	g and Environmental Office
Volkswage	n Group of America, Inc.
3800 Haml	in Road
Auburn Hil	ls, MI 48326
Phone: (24	8) 754-4224
Fax: (248)	754-4207

1

E-mail: robert.hart@vw.com

To: Lynn Sohacki/AA/USEPA/US@EPA;Bernd Liebner/AA/USEPA/US@EPA[]; ernd

Liebner/AA/USEPA/US@EPA[]

Cc: "Johnson, Stuart" [Stuart.Johnson@vw.com]

From: "Berenz, Sebastian"

Sent: Wed 8/18/2010 3:16:11 PM

Subject: In-use vehicles scheduled VW

Fuel Drain Instuctions.pdf

In-Use Parameters FormN148RXX-0092Ex.6xlsIn-Use Parameters FormN148RXX-0184Ex.6xlssebastian.berenz@vw.com

Hello Mrs. Sohacki,

Attached you will find the required information for both cars you already have received for the surveillance program of our 8ADXV02.0366 test group.

Please let me know if you have any questions.

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

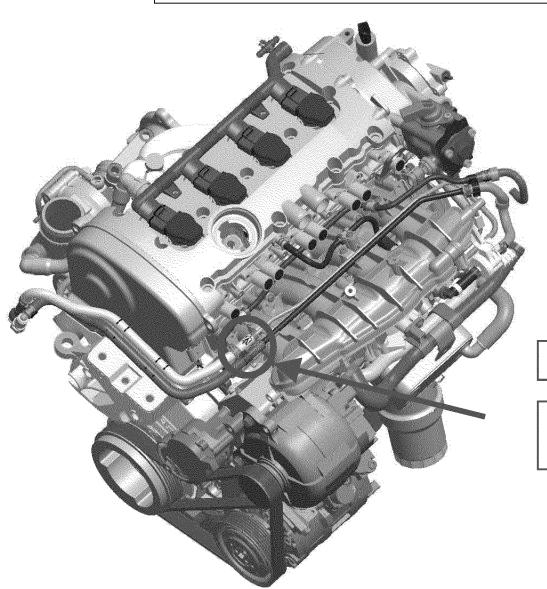
Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211

Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

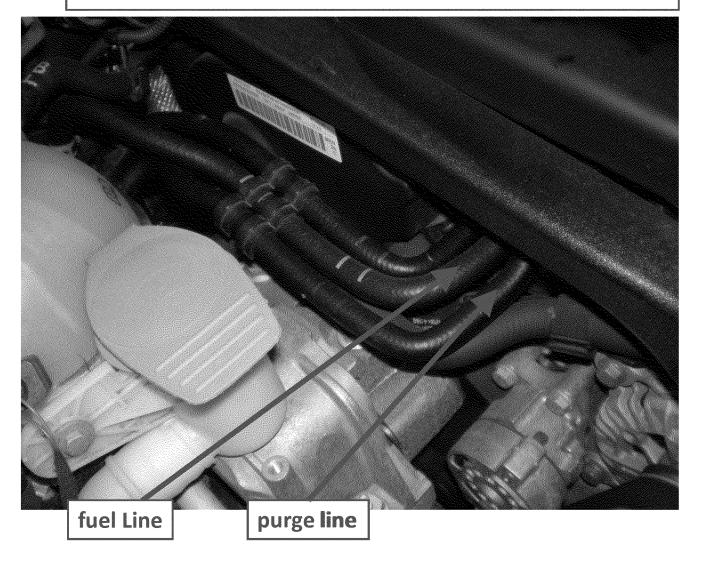
 $P\ Before\ you\ print\ it,\ think\ about\ your\ responsibility\ and\ commitment\ to\ the\ ENVIRONMENT!$

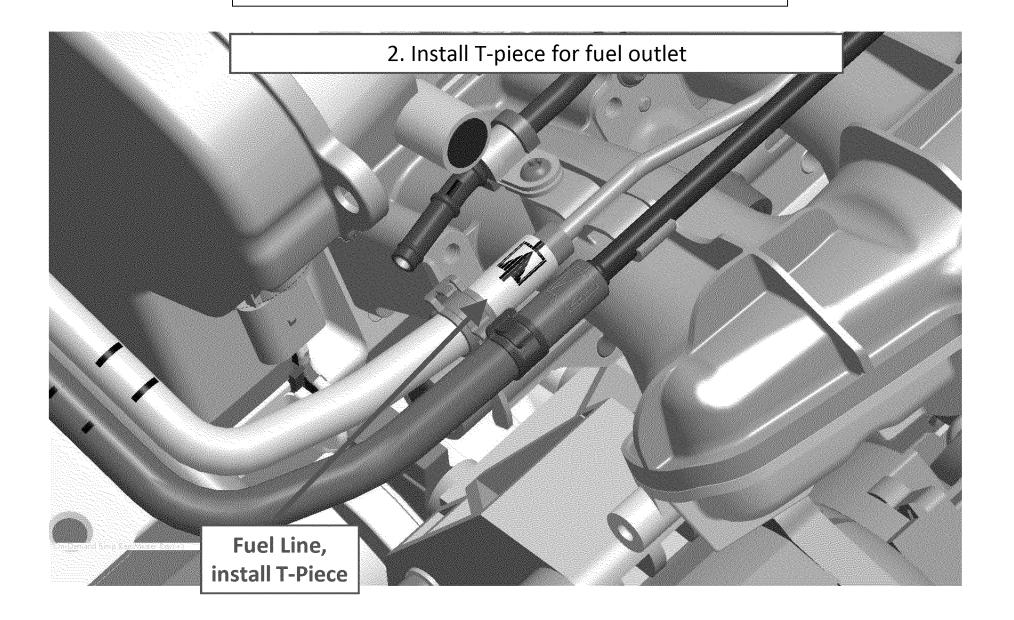


1. Remove Engine Cover

Access to Fuel Line and Purge Line Connections

overview



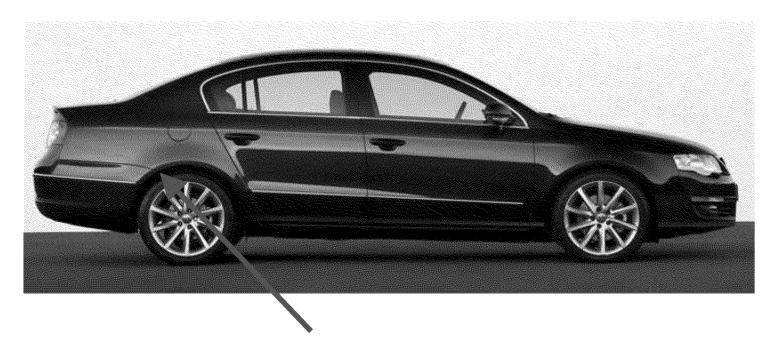


Fuel Drain, Canister Load Port

- 1. Remove Engine Cover
- 2. Install T-piece in fuel line and prepare to drain system
- 3. Activate 12v fuel pump until no more fuel flows. (Should flow with key in on position without engine running. If not, use necessary means to supply fuel pump with 12v)

Carbon Canister Loading

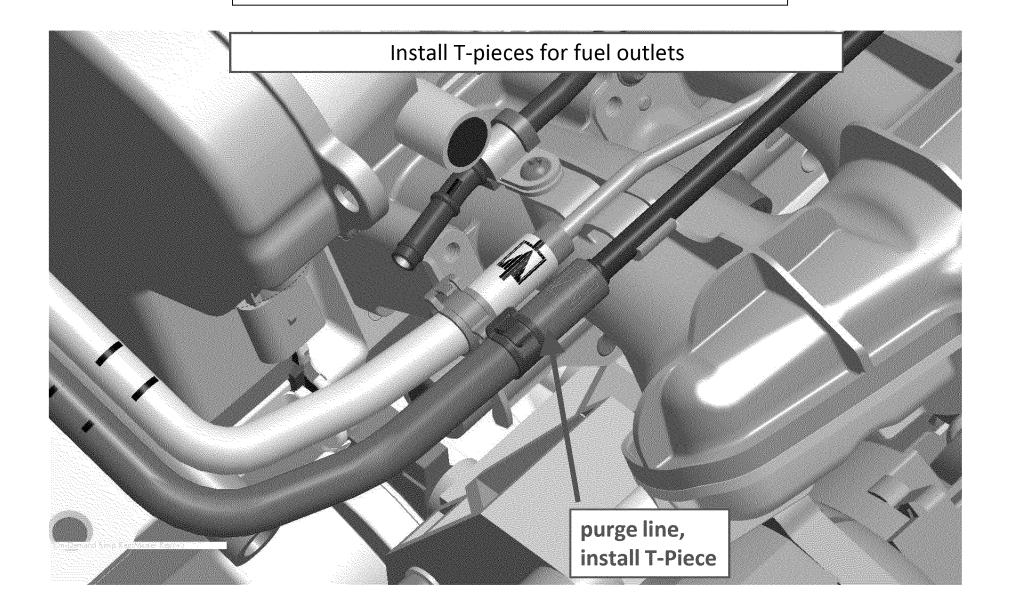
Ventilation Port (rear right Wheel Housing)



Carbon canister is placed in the wheel housing behind the wheel housing liner on the right side of the vehicle.

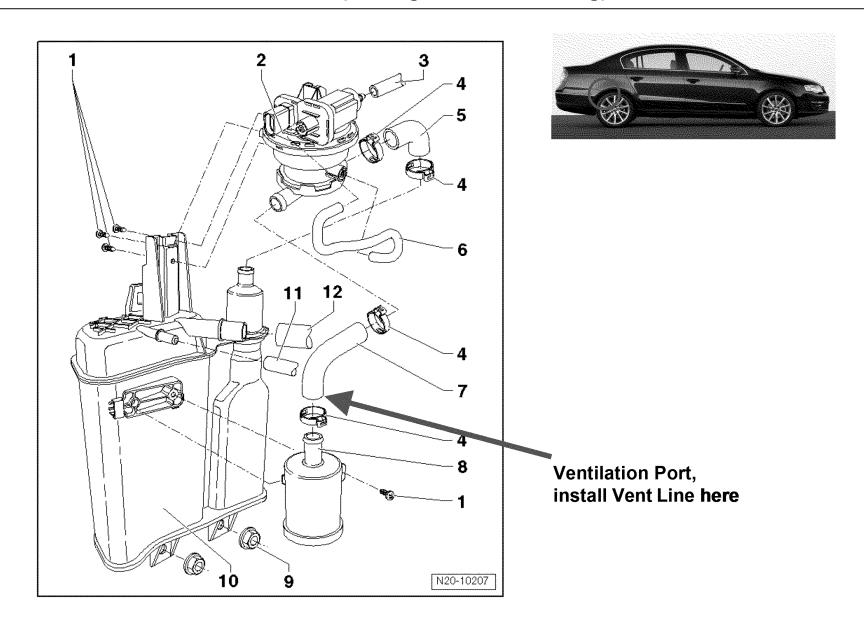
- 1. Remove wheel on the right in the back of the vehicle
- 2. Remove the wheel housing liner
- 3. Now you have access to the carbon canister

Canister Load Port

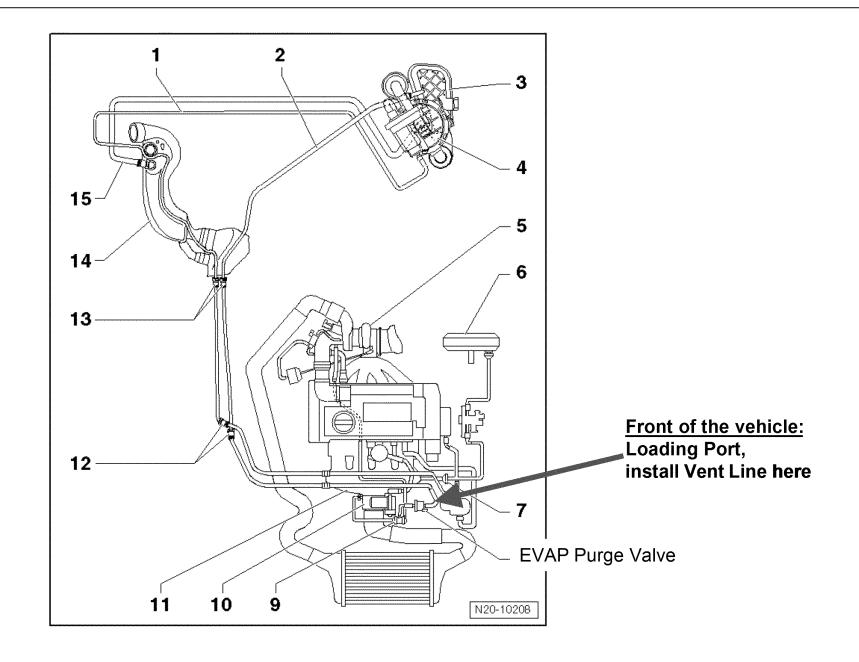


Carbon Canister Loading

Ventilation Port (rear right Wheel Housing)



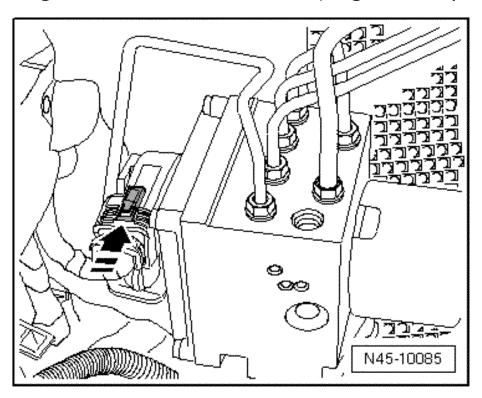
Structure of the Evap. System for Canister Loading/Purging



ABS disabling process

ESP SYSTEM DEACTIVATION:

Remove the Plug on the ABS control unit (Engine Compartment)





National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Numl	N148RX	X-0092					
Equivalent Test Weight :			38	75.0 Pounds			
Nominal Fuel Tank Capaci	ty:			18.5Gallons	40% Fill	7.	4Gallons
Drive Axle:		front		Front, Re	ar or All whe	el drive	
Tire Pressure:				41PSI			
Mfr. Shift Schedule (if requ	iired)	FTA	FTP	HWA	HWY	USA	US06
Vehicle Target Road-Load	nts	Vehic	ele Set Road-	Load Coe	fficients		
A 35.07			A 17.09		Lb-force		
B 0.507	*mph		B 0.101		Lb-force	*mph	
C 0.014	Lb-force	*mph²		C 0.014		Lb-force	*mph ²
Does this vehicle qualify for rela	xed in-use s	tandards a	s set for	th in 40 CFR 8	6.1811-04(p)	N	_(Y/N)
Vehicle Starting Instruction	ns, includi	ing Tract	tion Co	ntrol disabli	ng:		
see attached document							
To avoid unnecessary delays, please p	rovide specific	instructions	and pictu	res (if necessary)	for the following	ı items:	
Canister Loading Process:	see attac				,		
Fuel Draining Process:	see atta						
ABS Disabling Process:	See alla		Junion				
	see atta	ched dod	cumen	•			
Fuel Switch Process (Flex Fu	el only):	n.a.					
Comments:							
				o Only			
This information was obtained from:	FC	or internal	EPA US	e Only:			
* Letter, e-mail, fax or other docu	ıment delivered	from the man	nufacturer				
(attach any c	additional infor	mation from t	he manufac	turer to this form)			
Verbal instruction from the manOther (specify)	ufacturer's repr	esentative					
Manufacturer Representative:	Sebastian	Berenz V	WGoA		Date:		8/18/2010
EG&G Representative:					Date:		
EPA Representative:					Date:		



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Numl	N148RXX	X-0184					
Equivalent Test Weight :			38	75.0 Pounds			
Nominal Fuel Tank Capaci	ty:			18.5 Gallons	40% Fill	7.	4Gallons
Drive Axle:		front		Front, Re	ar or All whe	el drive	
Tire Pressure:				41PSI			
Mfr. Shift Schedule (if requ	iired)	FTA	FTP	HWA	HWY	USA	US06
Vehicle Target Road-Load	nts	Vehic	ele Set Road-	Load Coe	fficients		
A 35.07			A 17.09		Lb-force		
B 0.507	B _{0.507} Lb-force*			B 0.101		Lb-force	*mph
C 0.014	Lb-force	*mph²		C 0.014		Lb-force	*mph ²
Does this vehicle qualify for rela	xed in-use s	tandards a	ıs set for	th in 40 CFR 8	6.1811-04(p)	N	_(Y/N)
Vehicle Starting Instruction	ns, includi	ing Tract	tion Co	ntrol disabli	ng:		
see attached document							
To avoid unnecessary delays, please p	rovide specific	instructions	and pictu	res (if necessary)	for the following	ı items:	
Canister Loading Process:	see attac				,		
Fuel Draining Process:	see attac						
ABS Disabling Process:		51104 400	Jamon				
	see atta	ched doo	cument				
Fuel Switch Process (Flex Fu	el only):	n.a.					
Comments:							
				o Only			
This information was obtained from:	FC	or internal	EPA US	e Only:			
* Letter, e-mail, fax or other docu	ıment delivered	from the man	nufacturer				
(attach any c	additional infor	mation from ti	he manufac	turer to this form)			
* Verbal instruction from the man* Other (specify)	ufacturer's repr	esentative					
Manufacturer Representative:	Sebastian	Berenz V	WGoA		Date:		8/18/2010
EG&G Representative:					Date:		
EPA Representative:					Date:		

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: CN=Vincent Mazaitis/OU=AA/O=USEPA/C=US@EPA[]

Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Wed 8/18/2010 3:55:21 PM

Subject: Re: Retest Request for VW Tiguan - VW416 80218 cfg. 0

Bob, do you know if Bentley is considering a retest on the USO6? If so, we should do it before we switch fuels on monday.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Cc: "Reisner, Axel, Dr. (EASZ/1)" <axel.reisner@volkswagen.de>

Date: 08/18/2010 09:01 AM

Subject: Retest Request for VW Tiguan - VW416 80218 cfg. 0

Hello Jim,

I informed Vince Mazaitis that Volkswagen has requested a retest of the FTP and HWFET for the VW Tiguan – VW416 80218 cfg. 0.

Both fuel economy values are more than 3% different from the manufacturer test results.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Hart, Robert (VWoA)"
Sent: Wed 8/18/2010 5:37:15 PM

Subject: RE: Retest Request for VW Tiguan - VW416 80218 cfg. 0

I will let you know Bentley's answer first thing in the morning.

Bob

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Wednesday, August 18, 2010 11:55 AM

To: Hart, Robert (VWoA)

Cc: Mazaitis.Vincent@epamail.epa.gov

Subject: Re: Retest Request for VW Tiguan - VW416 80218 cfg. 0

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1

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From:

"Hart, Robert (VWoA)" < Robert. Hart@vw.com>

To:

Jim Snyder/AA/USEPA/US@EPA

Cc:

"Reisner, Axel, Dr. (EASZ/1)" <axel.reisner@volkswagen.de>

Date:

08/18/2010 09:01 AM

Subject:

VW FOIA, EPA

Retest Request for VW Tiguan - VW416 80218 cfg. 0

Hello Jim,

I informed Vince Mazaitis that Volkswagen has requested a retest of the FTP and HWFET for the VW Tiguan - VW416 80218 cfg. 0.

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Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: Jim Snyder/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA[]; tephen Healy/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA[]; inc Wehrly/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; artin Reineman/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; artin Reineman/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; om Anderson/AA/USEPA/US@EPA[] From: "Kata, Leonard" Sent: Wed 8/18/2010 5:50:13 PM Subject: RE: Audi Meeting with EPA: Discussion topics 00 final 08-19-2010.pdf
Hello everyone:
I have attached a copy of the presentation materials that we wish to discuss during our meeting tomorrow. I will bring a few copies and our portable projector to show the slides.
See you at 1 p.m. tomorrow (Aug. 19, 2010).
Best regards,
Len
Leonard W. Kata
Manager, Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
Phone: (248) 754-4204

1

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Tuesday, August 17, 2010 11:03 AM

To: Nevers.Chris@epamail.epa.gov; Ball.Joel@epamail.epa.gov; Kata, Leonard; Healy.Stephen@epamail.epa.gov; Wehrly.Linc@epamail.epa.gov; Reineman.Martin@epamail.epa.gov; Anderson.Tom@epamail.epa.gov

Subject: Audi Meeting with EPA: Discussion topics

Audi AG has provided a more refined list of discussion topics. These are shown below:

EPA Meeting

- Idle stop system Last mode strategy
- * Worst case mode for emission certification and OBD emission impact tests
- * EPA position on Evap Test procedure for PHEV
- * HEV application for certification
- * New emission related components for MY 2012 GHG
- * MIL on and additional information / text message
- * Audi Hybrid and battery cooling at the dynamometer
- * Clarification of dynamometer test mode for future vehicles

See you on Thursday.

From: "Hart, Robert (VWoA)" Wed 8/18/2010 8:00:38 PM Sent: Subject: Another Test Waiver Request Coming Soon Hello Jim, There is another test waiver request coming soon. This time for the Audi TT in Test Group BADXT02.03UA. An additional engine is being added to the test group as a running change- fuel economy only - not a new worst case. Also, I have seen the retest schedule for VW614 80218 in the VERIFY System. Best regards, Bob Robert Hart **Engineering and Environmental Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4224 Fax: (248) 754-4207 E-mail: robert.hart@vw.com

To:

Jim Snyder/AA/USEPA/US@EPA[]

To: "Johnson, Stuart" [Stuart.Johnson@vw.com]

Cc: []
Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Wed 8/18/2010 8:15:20 PM

Subject: RE: Resend Fw: In-use vehicles scheduled for next week

Hi, Stuart.

Thank you for the e-mail. I'll include you, Sebastian and Dennis in my testing information. Ill look forward to receiving the canister loading procedure.

Regards,

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Johnson, Stuart" < Stuart. Johnson@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 08/18/2010 07:49 AM

Subject: RE: Resend Fw: In-use vehicles scheduled for next week

Hello Lynn,

Thanks for the email. I think you saw a note from Christoph referring you to me. I meant to tell you in the future you can send all information regarding testing to me, Sebastian Berenz and Dennis Reineke.

Sebastian works in my department and has taken over the IUVP job from Edy Popa for the next three years. Edy has returned to Germany. Sebastian's email is sebastian.berenz@vw.com

Dennis is a longtime member of our group and has prior in-use and laboratory experience, so he can act as a back-up if Sebastian or I am not available. Over the past few years your surveillance letters have come to Dennis. We left it that way because we thought for continuity it was better to have a US contact. Dennis' email is dennis.reineke@vw.com

Sebastian was out at your laboratory yesterday inspecting your first Passat and gave your staff the testing parameters. I saw your request to send the information to you electronically and we will do that. We are still waiting for a canister procedure from Germany and will send it as soon as it is received. We expect it this week.

Best Regards, Stuart ----Original Message-----From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov] Sent: Tuesday, August 17, 2010 4:57 PM To: Johnson, Stuart Subject: Resend Fw: In-use vehicles scheduled for next week Hi, Stuart. Sorry the last e-mail got sent before I had a chance to write something. Christoph said you would be able to get parameters for me. The needed information is on the form below. Please let me know if you have any questions. Thanks. Lynn Sohacki **Environmental Protection Agency** 734-214-4851 734-214-4869 (fax) ---- Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 04:55 PM ----Lynn Sohacki/AA/USEPA/US From: To: christoph.kohnen@vw.com Date: 08/17/2010 09:33 AM Subject: Fw: In-use vehicles scheduled for next week

Hi, Christoph.

We will need the parameters for these vehicles this week. Please get

them to me when you can.
Thank you.
Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)
Forwarded by Lynn Sohacki/AA/USEPA/US on 08/17/2010 09:32 AM
From: Lynn Sohacki/AA/USEPA/US
To: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com></christoph.kohnen@vw.com>
Date: 08/11/2010 09:17 AM
Subject: In-use vehicles scheduled for next week
Good morning.
Listed below is the information for the vehicles that we have scheduled for next week.
N148RXX-0092 (2008 VW/Passat) - Ex. 6 0900 vehicle pick up on 8/17/10 (Tuesday)
N148RXX-0184 (2008 VW/Passat) - Ex. 6 0900 vehicle pick up on 8/19/10 (Thursday)
Please send the following to me for these vehicles before pick-up. Please use the attached form:
vehicle target road-load coefficients fuel tank capacity 40% tank capacity tire pressure applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have

preferred method for loading the canister preferred fuel drain method any special starting procedures ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]; Rodgers, William"

[William.Rodgers@vw.com]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 8/19/2010 12:18:28 PM **Subject:** Fw: VW36100250 Lab Test Report

VW36100250 8-18-10.pdf

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov
----- Forwarded by Jim Snyder/AA/USEPA/US on 08/19/2010 08:17 AM -----

From: Vincent Mazaitis/AA/USEPA/US
To: Jim Snyder/AA/USEPA/US@EPA

Date: 08/19/2010 06:50 AM Subject: VW36100250 Lab Test Report

NVFEL Laboratory Test Data Final Laboratory Test Results- Refer to VERIFY Reports for Official Data Test Number: 2010-0225-005 Vehicle ID: VW36100250 Test Date: 8/18/2010 MFR Name VOLKSWAGEN **Test Information** Key Start / Hot Soak: 07:10:58 / 09:42 MFR Codes: 590 **VWX** Fuel Container ID: F00023 Config #: 00 Fuel Type: 61 Tier 2 Cert Test Fuel Transmission: AUTO Test Procedure: 21 Federal fuel 2-day exhaust (w/can loa Shift Schedule: A09980005 Calculation Method: Gasoline Beginning Odometer: 003378.0 MI **Pretest Remarks:** Drive Schedule: ftp3bag Soak Period: 16.6 hours Bag Data HC-FID CO NOx CO2 CH4 NonMeth HC Phase 1 (ppmC) (ppm) (ppm) (%) (ppm) (ppmC) 1.200 12.580 49.678 0.864 Sample 2.841 Ambient 2.536 0.000 0.017 0.044 2.025 Net Concentration 10.208 49,678 1.184 0.822 0.947 9.126 Remarks: Phase 2 Sample 3.281 3.056 0.028 0.549 2.232 **Ambient** 2.467 0.000 0.016 0.044 2.023 **Net Concentration** 0.915 3.056 0.013 0.507 0.293 0.580 Remarks: Phase 3 Sample 3.555 7.269 0.139 0.760 2.305 Ambient 2.421 0.000 0.027 0.044 2.010 0.113 **Net Concentration** 1.271 7.269 0.718 0.409 0.804 Remarks: Phase 4 Sample **Amblent** Net Concentration Remarks: Results CO **NOx** CO₂ CH4 HC-FID NMHC / NMOG Vol MPG (gpm) (mpg) (gpm) (gpm) (gpm) (gpm) (gpm) Phase 1 0.128 1.261 0.045 328.1 0.014 0.115 / 0.119 26.900 0.018 Phase 2 0.124 0.001 322.9 0.007 0.012 / 0.012 27.514 Phase 3 0.016 0.186 0.004 288.6 0.006 0.010 / 0.011 30.774 (NMOG=1.04xNMHC) Weighted 0.04056 0.37686 0.01086 314.550 0.00802 0.0326 / 0.0339 Fuel Economy Gasoline MPG Dyno #: D329 - FWD **Dyno Settings** Phase 1 26.87 Inertia: 3250 Phase 2 27.49 EPA Set Co A: 5.22 Phase 3 30.74 EPA Set Co B: 0.379 EPA Set Co C: 0.01389 Weighted 28.13 Emissions Bench: Mexa 7200sle v100414 - d329 EPAVDAEm100818063951 Page 1 of 2 Print Time 18-Aug-2010 08:04

06/20/2017

				Laboratory To				CVS
Final Laboratory Test Results- Refer to VERIFY Reports for Official Data Test Number: 2010-0225-005 Vehicle ID: VW36100250								
lesults		HC-FID		Nav			VW36100250	
		(grams)	<u>CO</u> (grams)	<u>NOx</u> (grams)	CO2 (grams)	CH4	NMHC	Meth Respons
Julied States	Phase 1	0.459	4.512	(grams) 0.160	(grants) 1174.0	(grams) 0.049	(grams) 0.411	1.143
	Phase 2	0.071	0.476	0.003	1239.4	0.049	0.045	
	Phase 3	0.058	0.664	0.015	1031.2	0.020	0.036	
The state of the s	7 11450 0	0.000	0.004	0.013	1031.2	0.021	0.030	
PAL PROTECTS		,						· · · · · · · · · · · · · · · · · · ·
est Conditions			Phase 1	Phase 2	Phase 3	Phase 4		
		rometer (inHg)	29.16	29.16	29.16			
		II Temp (degF)	75.29	74.74	74.50			
Dew Point (degF)			49.33	48.94	48.67			
Specific Humidity (grains/lbm)			53.59	52.80	52.26			
NOx Corr Factor			0.9086	0.9055	0.9035			
		Dilution Factor	15.397	24.372	17.604			
	CFV Vr	mix (scf @68F)	2755.09	4720.13	2770.28			
(CVS Flow R	ate Avg (scfm)	326.30	325.79	328.10			
	F	an Placement: O	ne Fan - Down	- Front				
	Pha	se Time (secs)	506.60	869.30	506.60			
Distance (miles)			3.578	3.838	3.573			
	Bag Analys	sis Time (secs)	878.8	1103.5	121.0			
						•		

MFR Test Results

for Procedure 21 Federal fuel 2-day exhaust (w/can load)

 MFR Number
 HC
 CO
 NOx
 CO2
 NMOG
 NonMeth HC

 1E+07
 0.0347
 0.45
 0.0132
 324
 0
 0.0302

 Odometer
 MPG
 PM
 MFR Lab: Volkswagen AG, Dept EASZ/1

 3164 M
 27.3
 0.002

MPG is -2.96 % lower than EPA MPG Dyno: 21

Fuel: 61 Tier 2 Cert Gasoline

I have validated the data in accordance with the requirements of TP 730

Validated By: Date: 8-16-10

8/18/2010 8:04 AM

20080609183200

VTAURdxxx.xls

CERT

VWX

NVFEL Laboratory Test Data

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2010-0225-006

Test Date: 8/18/2010

Key Start: 08:30:01 Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 3

Calculation Method: Gasoline

Pretest Remarks:

Vehicle ID: VW36100250

MFR Name VOLKSWAGEN

MFR Codes: 590

Config #: 00

Transmission: AUTO

Shift Schedule: A09980011

Beginning Odometer: 003389.0 MI

Drive Schedule: hwfet_hwfet

Bag Data Phase 1 Sample Ambient	HC-FID (ppmC) 3.283 2.430	CO (ppm) 5.820 0.000	NOx (ppm) 0.089 0.014	CO2 (%) 1.055 0.043	<u>CH4</u> (ppm) 2.429 2.001	NonMeth HC (ppmC)	
Net Concentration	1.045	5.820	0.076	1.016	0.585	0.376	

Remarks:

Phase 2

Sample Ambient

Net Concentration

Test Information

Remarks:

Phase 3

Sample

Amblent

Net Concentration

Remarks:

Phase 4

Sample

Ambient

Net Concentration

Remarks:

Results	HC-FID	20	MO				
	***************************************	, co	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	NMHC/NMOG	Vol MPG
Phase	(gpm) 1 0.007	(gpm) 0.078	(gpm) 0.002	(gpm) 213.3	(gpm) 0.004	(gpm) 0.002 / 0.003	(mpg) 41.662

(NMOG=1.04xNMHC)

Fuel Economy

v100414 - d329

Phase 1

EPAVDAEm100818080408

Gasoline MPG

41.62

Dyno Settings

Dyno #: D329 - FWD

Inertia: 3250

EPA Set Co A: 5.22 EPA Set Co B: 0.379

EPA Set Co C: 0.01389

Emissions Bench: Mexa 7200sle

Print Time 18-Aug-2010 08:53

8/18/2010 8:53 AM

Page 1 of 2

		Final I aha	INVEL.	Laboratory T	est Data	000.00		cvs
		Test Number:	ratory Test Resu : 2010-0225-006	its- Refer to VEH	IIFY Reports for): VW36100250	
Results VINNED STARRES VINNE	Phase 1	HC-FID (grams) 0.071	<u>CO</u> (grams) 0.795	<u>NOx</u> (grams) 0.015	<u>CO2</u> (grams) 2180.9	CH4 (grams) 0.046	NMHC (grams) 0.025	Meth Respons 1.143
est Conditions	Ba Avg Ce De pecific Humid N CO2 CFV Vr	arometer (inHg ell Temp (degF; ew Point (degF; ity (grains/ibm) Ox Corr Factor Dilution Factor nix (scf @68F) ate Avg (scfm)	75.04 49.09 53.14 0.9068 12.688 4144.50	Phase 2	Phase 3	Phase 4		
	Phas Di	an Placement: se Time (secs) istance (miles) is Time (secs)	10.226	- Front				
R Test Results	fo R <u>Number</u> 1E+07	r Procedure 3 I <u>HC</u> 0.0112	CO	<u>NOx</u>	<u>CO2</u>	<u>NMOG</u>	NonMeth HC	
Road	Odometer 3175 M	MPG 1 40.1 PG is 3.66 % I	0.11 PM 0.018 ower than EPA M Compared to the secondance with the	Jan /c 7	Dyno: 2	1 Tier 2 Cert Ga		8-18-10
	Validated By:	AAR			Date: 8	-18-1E	>	

8/18/2010 8:53 AM

20080609183200

06/20/2017

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VWX

NVFEL Laboratory Test Data

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2010-0225-004

Test Date: 8/18/2010

Key Start: 09:16:57

Fuel Type: 61 Tips 2 Cort T

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 89 US06 Calculation Method: Gasoline

Pretest Remarks:

Vehicle ID: VW36100250

MFR Name VOLKSWAGEN

MFR Codes: 590 Config #: 00

Transmission: AUTO

Shift Schedule: A09980041 Beginning Odometer: 003410.0 MI

Drive Schedule: us06warmup_2bagus06

Bag Data	HC-FID	, <u>co</u>	NOx	CO2	<u>CH4</u>	NonMeth HC	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	5.469	157.201	0.245	0.808	3.131		
Amblent	2.490	0.000	0.038	0.043	1.975		
Net Concentration	3.133	157.201	0.209	0.768	1.277	1.674	
Remarks							
Phase 2	•						
Sample	5.576	238.253	0.144	1.052	3.356		
Ambient	2.492	0.000	0.044	0.043	1.976		
Net Concentration	3.284	238.253	0.103	1.013	1.539	1.525	
	0.204	200.200 ,	0.103	1.013	1.039	1.525	

Remarks:

Phase 3

Sample Ambient

Net Concentration

Test Information

THIED STATES

Remarks:

Phase 4

Results

Sample Ambient Net Concentration

Remarks:

HC-FID

CO

	Phase 1 Phase 2	(gpm) 0.063 0.029	(gpm) 6.387 4.242	(gpm) 0.013 0.003	(gpm) 490.7 283.3	(gpm) 0.030 0.016	(gpm) 0.034 / 0.035 0.013 / 0.014	(mpg) 17.750 30.652
	Composite	0.03652	4.71769	0.00494	329.293	0.01881	(NMOG=1.04xNMHC 0.0179 / 0.0187	,
Fuel Economy		Gasoline MPG				Dyno Settings	Dyno #:	D329 - FWD
	Phase 1	17.73					Inertia:	
	Phase 2	30.62					EPA Set Co A:	5.22
							EPA Set Co B:	0.379
							EPA Set Co C:	0.01389
	0	22.50	4	*				
	Composite	26.39				E	missions Bench:	Mexa 7200sle
v100414 - d329	EPAVDAEm1008	818085336	10-1	Page 1 of 2			Print Tim	e 18-Aug-2010 09:45

<u>NOx</u>

CO2

<u>CH4</u>

NMHC / NMOG

Vol MPG

			NVFEL	Laboratory Te	est Data			CVS
		Final Laborat	ory Test Resul	ts- Refer to VER	IFY Reports for			
Results	······································	Test Number: 2 HC-FID		Non	000		D: VW36100250	
THITED STATES		(grams)	<u>CO</u> (grams)	NOx (grama)	<u>CO2</u>	<u>CH4</u>	NMHC	Meth Respons
THILL S. S. C.	Phase 1	0.112	11.321	(grams) 0.022	(grams)	(grams)	(grams)	1.143
	Phase 2	0.180	26.387	0.022	869.7	0.053	0.060	
To the state of th	2	0.100	20.507	0.017	1762.3	0.098	0.084	
44 PROTECTS							C. L. C. D. C.	·
est Conditions			Phase 1	Phase 2	Phase 3	Phase 4		
	Bai	rometer (inHg)	29.14	29.14		**************************************		
	Avg Cel	Temp (degF)	74.48	75.20				
	Dev	w Point (degF)	49.09	49.20				
Sp	ecific Humidi	ty (grains/lbm)	53.14	53.37				
		Ox Corr Factor	0.9068	0.9077				
		Dilution Factor	16.249	12.447				
		nix (scf @68F)	2184.30	3359.11				
		, ,						
	CVS Flow Ra	ate Avg (scfm)	553.69	552.18				
	Fa	an Placement: U		e Large Fan - Dov	vn - Front			
		e Time (secs)	130.01	364.99	106.70			
		stance (miles)	1.772	6.220				
	Bag Analysi	s Time (secs)	110.2	321.8				
FR Test Results	for	· Procedure 90 U	1 506					
MFR	Number	<u>HC</u>	<u>co</u>	<u>NOx</u>	CO2	NMOG	NonMeth HC	
	1E+07	0.0297	2.24	0.0067	296	0	0.0208	
	dometer 305 M	MPG 29.7			MFR Lab: V	/olkswagen AG	, Dept EASZ/1	
Λ	, AM	PG is 12.53 % hi	gher than EPA	MPG	Dyno: 2			
Kneed	. []/ []	W -	/	1 +1	0 ~ Fuel: 6	1 Tier 2 Cert G	Sasoline	
1	have validate	ed the data in ac	cordance with it	ne requirements	TEPASO BP	OK	DV 8-1	18-10
		A ./		··· · ibdenomonio	A 11 100			0 70
•	/alidated By:	JHHT.)		Date:	8.18	10	
,	•			***************************************			10	
	•	WAL			***************************************			

8/18/2010 9:45 AM

20080609183200

VTAURdxxx.xls

2017-FFP_001376

To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Thur 8/19/2010 4:36:38 PM VW Group: Retest Request for Volkswagen Test Vehicle VW36100250 cfg. 0
Hello Jim,	
Volkswager	n requests a retest for both the HWFET and USO6 for test vehicle VW36100250 cfg. 0.
Volkswager	n has accepted the test results for the FTP for that vehicle configuration.
Best regard	ds,
Bob Hart	
Robert Har	t
Engineering	g and Environmental Office
Volkswager	n Group of America, Inc.
3800 Hamli	in Road
Auburn Hill	s, MI 48326
Phone: (24	8) 754-4224
Fax: (248) 7	754-4207
E-mail: rob	ert.hart@vw.com

To: Stuart.Johnson@vw.com;sebastian.berenz@vw.com;dennis.reineke@vw.com[]; ebastian.berenz@vw.com;dennis.reineke@vw.com[]; ennis.reineke@vw.com[]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 8/19/2010 5:24:00 PM

Subject: In-use vehicles scheduled for next week

In-Use Parameters Form.xls

Hello.

04(p)?)

pictures for:

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0299 (2008 VW/Passat) - **Ex. 6** , 0930 vehicle pick up on 8/24/10 (Tuesday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary,

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: CN=Vincent Mazaitis/OU=AA/O=USEPA/C=US@EPA[]

Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 8/19/2010 9:36:52 PM

Subject: Re: VW Group: Retest Request for Volkswagen Test Vehicle VW36100250 cfg. 0

done

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 08/19/2010 12:36 PM

Subject: VW Group: Retest Request for Volkswagen Test Vehicle VW36100250 cfg. 0

Hello Jim,

Volkswagen requests a retest for both the HWFET and US06 for test vehicle VW36100250 cfg. 0.

Volkswagen has accepted the test results for the FTP for that vehicle configuration.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: Lynn Sohacki/AA/USEPA/US@EPA;Bernd Liebner/AA/USEPA/US@EPA[]; ernd Liebner/AA/USEPA/US@EPA[] Cc: "Johnson, Stuart" [Stuart.Johnson@vw.com] From: "Berenz, Sebastian" Sent: Fri 8/20/2010 12:23:37 PM
Subject: RE: In-use vehicles scheduled for next week In-Use Parameters Form N148RXX-0299 Ex. 6 .xlsx
Fuel Drain Instuctions.pdf
Tudi Dialii ilistadiolis.pai
Hello Mrs. Sohacki, Hello Bernd,
Attached you will find the required information for third car.
The instructions are the same like for the other two cars.
If you have any questions, please do not hesitate to call me. We will be in Ann Arbor on Tuesday to check the car.
Sebastian Berenz
Manager In-Use Emission Compliance Enviromental Engineering Office
Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207 E-Mail: sebastian.berenz@vw.com
http://www.volkswagen.com
P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!
Original Message From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov] Sent: Thursday, August 19, 2010 1:24 PM To: Johnson, Stuart; Berenz, Sebastian; Reineke, Dennis Subject: In-use vehicles scheduled for next week
Hello.
Listed below is the information for the vehicles that we have scheduled for next week.
N148RXX-0299 (2008 VW/Passat) - Ex. 6 0930 vehicle pick up on 8/24/10 (Tuesday)

VW FOIA, EPA 06/20/2017 2017-FFP_001380

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)

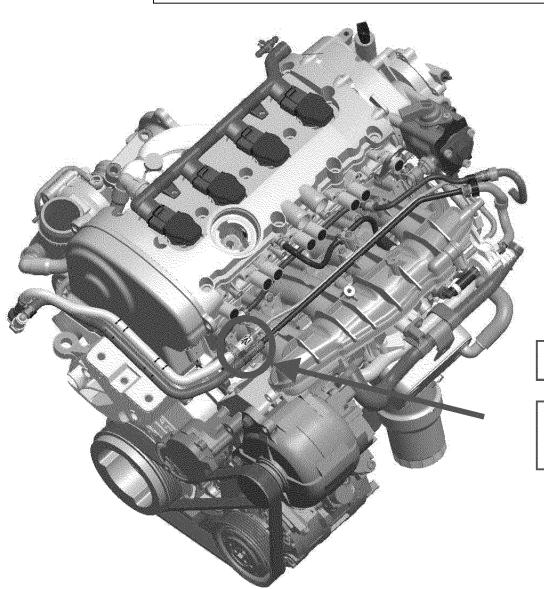


National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

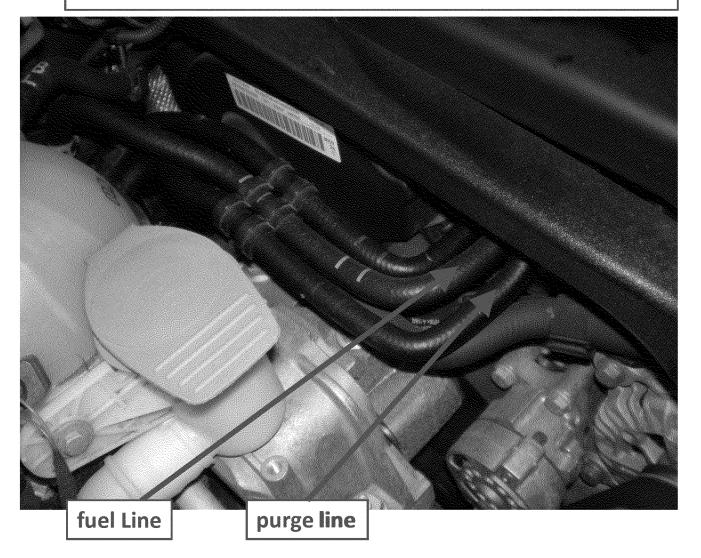
EPA Vehicle Control Number :		N148RXX-0299					
Equivalent Test Weight :			38	375.0 Pounds			
Nominal Fuel Tank Capacity:				18.5 Gallons	40% Fill	7.	4Gallons
Drive Axle:		front Front, Rear or All wheel drive					
Tire Pressure:				41PSI			
Mfr. Shift Schedule (if required)		FTA	FTP	HWA	HWY	USA	US06
Vehicle Target Road-Load	Coefficien	ıts	Vehi	cle Set Road-	Load Coef	ficients	
A 35.07			A 17.09		Lb-force		
B 0.507	*mph		B 0.101		Lb-force	*mph	
C 0.014	*mph²		C 0.014		Lb-force*mph ²		
Does this vehicle qualify for relati	xed in-use st	andards a	s set for	th in 40 CFR 86	5.1811-04(p)	'n	_(Y/N)
Vehicle Starting Instruction	ns, includi	ng Tract	ion Co	ntrol disabli	ng:		
see attached document							
To avoid unnecessary delays, please pr	rovide specific	instructions	and pictu	res (if necessary) f	or the following	items:	
Canister Loading Process:	ched doo	cumen	t				
Fuel Draining Process:	see attached document						
ABS Disabling Process:	see attached document						
Fuel Switch Process (Flex Fu		n.a.		-			
Comments:							
				Only			
This information was obtained from: * Letter, e-mail, fax or other docu (attach any of * Verbal instruction from the man * Other (specify)	nment delivered	nation from th	ufacturer	se Only:			
Manufacturer Representative:	Sebastian	Berenz V	WGoA		Date:		8/20/2010
EG&G Representative:					Date.		
EPA Representative:					Date:		

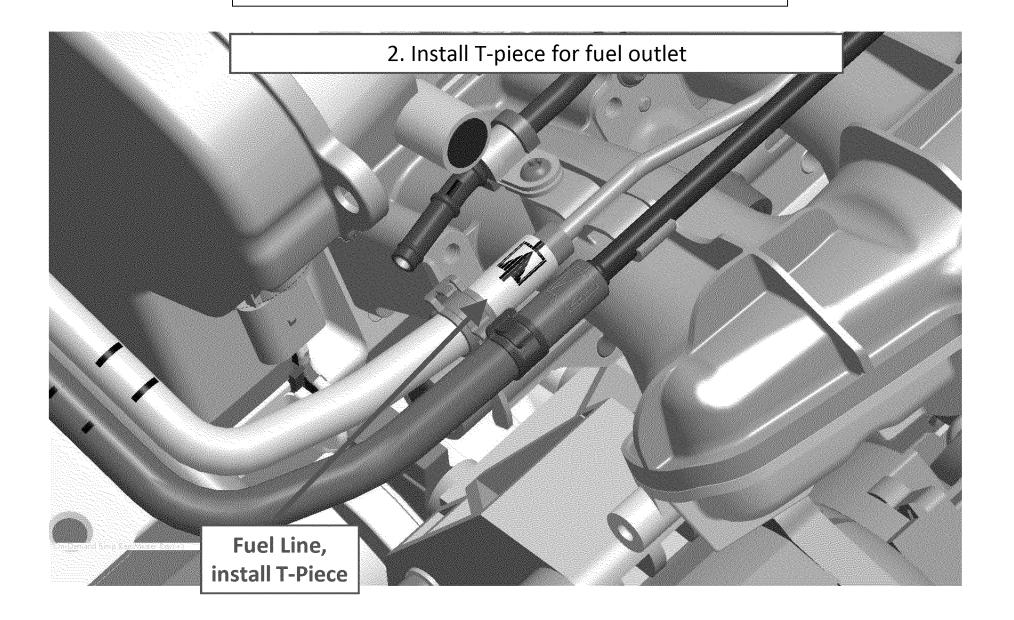


1. Remove Engine Cover

Access to Fuel Line and Purge Line Connections

overview



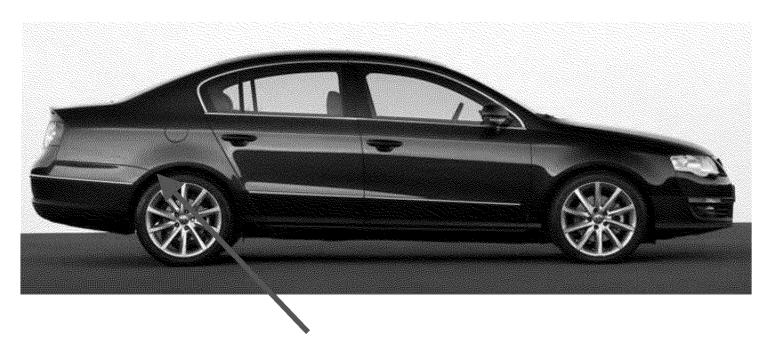


Fuel Drain, Canister Load Port

- 1. Remove Engine Cover
- 2. Install T-piece in fuel line and prepare to drain system
- 3. Activate 12v fuel pump until no more fuel flows. (Should flow with key in on position without engine running. If not, use necessary means to supply fuel pump with 12v)

Carbon Canister Loading

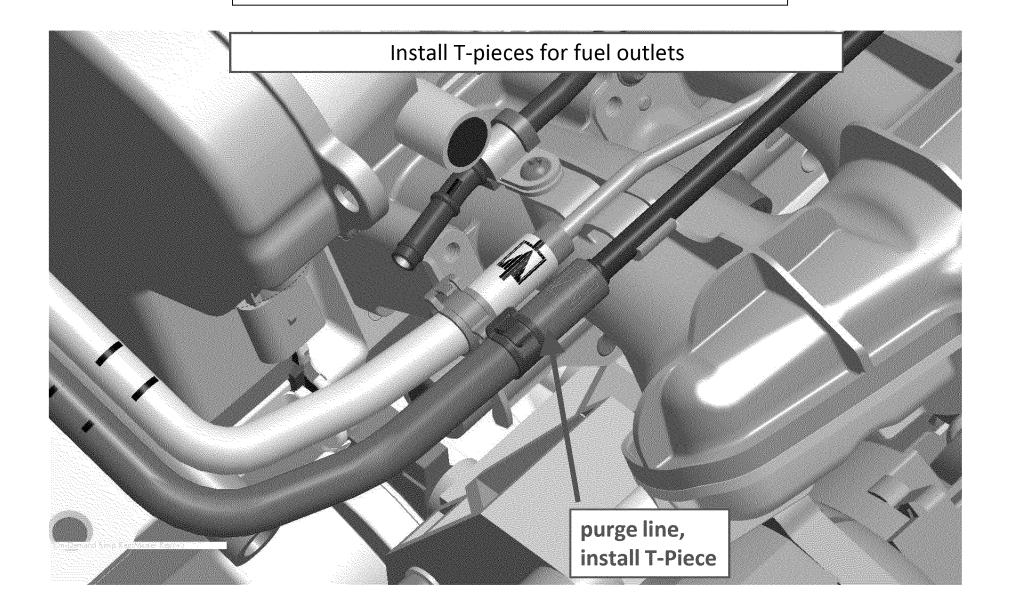
Ventilation Port (rear right Wheel Housing)



Carbon canister is placed in the wheel housing behind the wheel housing liner on the right side of the vehicle.

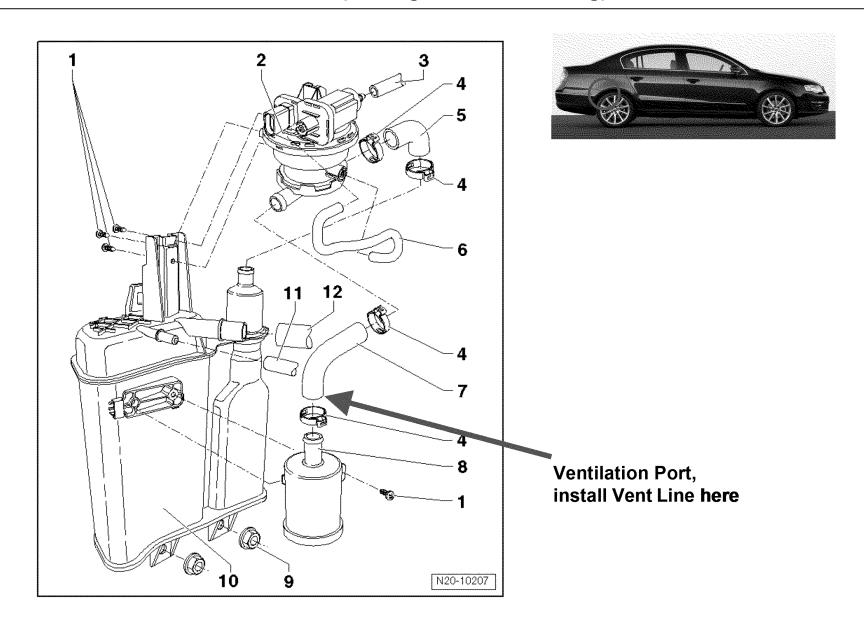
- 1. Remove wheel on the right in the back of the vehicle
- 2. Remove the wheel housing liner
- 3. Now you have access to the carbon canister

Canister Load Port

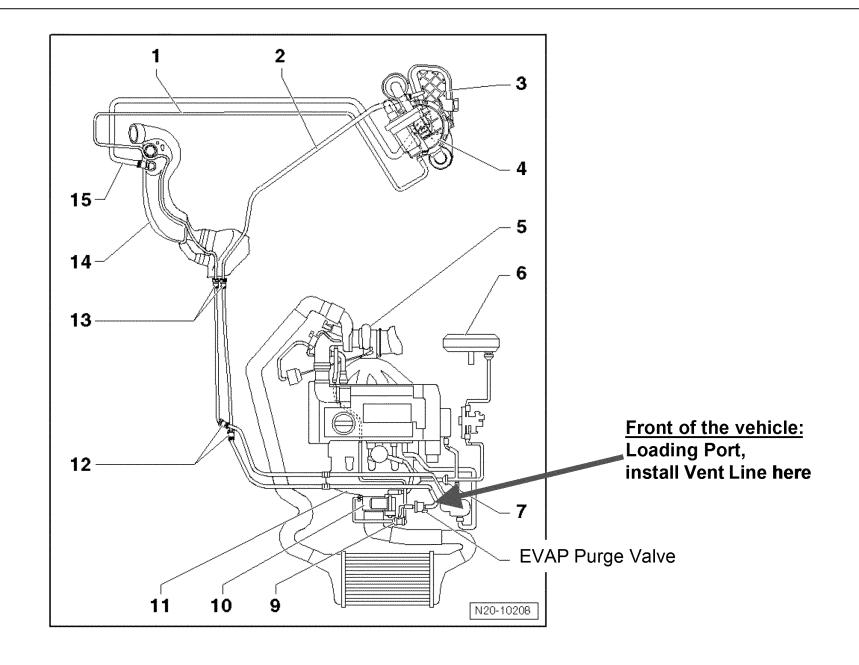


Carbon Canister Loading

Ventilation Port (rear right Wheel Housing)



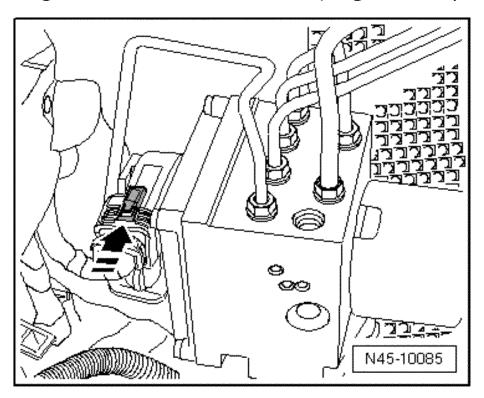
Structure of the Evap. System for Canister Loading/Purging



ABS disabling process

ESP SYSTEM DEACTIVATION:

Remove the Plug on the ABS control unit (Engine Compartment)



To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Fri 8/20/2010 2:55:46 PM

Subject: Re: VW Group: Bentley US06 Retest Request Recinded

I canceled the retest and informed the lab to go straight to the refueling.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 08/20/2010 10:38 AM

Subject: VW Group: Bentley US06 Retest Request Recinded

Hello Jim,

Bentley has decided to cancel the request for a retest of the US06 for test vehicle BY61021 cfg. 0 and accept the original test results.

Please call me if you have any questions.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 8/23/2010 5:57:11 PM Subject: Re: Cert Request Submitted

Yep, on this afternoon's agenda.

Also saw the Bentley conditional.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 08/23/2010 01:40 PM Subject: Cert Request Submitted

Hello Jim,

Just another "heads up" for a certificate request if you haven't already seen it. The certificate request for test group BVWXT03.6U76 was submitted on 19-Aug-10.

1

06/20/2017

2017-FFP 001393

Best regards,

Bob Hart

VW FOIA, EPA

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

Subject: VW Group: Letter to Allow Porsche to Use VW Test Results CBI BVWX CORRES LETTER01 R00.PDF Hello Jim, The attached letter has been submitted through the Verify System. The letter grants permission for Porsche to use VW test results from the MY 2011 VW Touareg Hybrid in test group BVWXT03.0HEV for the emissions certification of the Porsche Cayenne Hybrid. Best regards, **Bob Hart** Robert Hart **Engineering and Environmental Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4224 Fax: (248) 754-4207

To:

From:

Sent:

Jim Snyder/AA/USEPA/US@EPA[]

"Hart, Robert (VWoA)" Mon 8/23/2010 7:17:44 PM

E-mail: robert.hart@vw.com

VOLKSWAGEN

GROUP OF AMERICA

Mr. Jim Snyder Compliance and Innovative Strategies Division Office of Mobile Sources U. S. Environmental Protection Agency 2000 Traverwood Drive Ann Arbor, MI 48105 Leonard W. Kata Name
Manager – Emis. Cert. Title
EEO Department
248-754-4204 Phone
248-754-4207 Fax
leonard.kata@vw.com E-Mail

August 23, 2010 Date

Subject: Carry Across of MY 2011 Volkswagen Emission Test Data to Porsche for Certification of Cayenne Hybrid

Dear Mr. Snyder,

The model year 2011 Volkswagen Touareg Hybrid and Porsche Cayenne Hybrid were developed together and share the same test vehicle. Porsche has permission from Volkswagen AG to carry across the Volkswagen manufacturer emissions tests and EPA confirmatory tests from the Touareg Hybrid for emissions certification of the Cayenne Hybrid.

VOLKSWAGEN GROUP OF AMERICA, INC. 3800 HAMLIN ROAD AUBURN HILLS, MI 48326

PHONE +1 248 754 5000

Sincerely,

Leonard W. Kata

Volkswagen Group of America, Inc.

Engineering and Environmental Office

Enclosure(s)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: CN=Bernd Liebner/OU=AA/O=USEPA/C=US@EPA;"Johnson, Stuart"

[Stuart.Johnson@vw.com]; Johnson, Stuart" [Stuart.Johnson@vw.com]

Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Tue 8/24/2010 12:59:46 PM

Subject: RE: In-use vehicles scheduled for next week

In-Use Parameters Form N148RXX-0299 Ex. 6 .xlsx

Fuel Drain Instuctions.pdf

Hi, Sebastian.

I have a question from the lab. The tire pressure that is listed on the door jam is 33 lbs. That differs from the pressure indicated on the attached form of 41 lbs. Which is the preferred tire pressure?

Thanks in advance for your response.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" < Sebastian. Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA, Bernd Liebner/AA/USEPA/US@EPA

Cc: "Johnson, Stuart" < Stuart. Johnson@vw.com>

Date: 08/20/2010 08:23 AM

Subject: RE: In-use vehicles scheduled for next week

Hello Mrs. Sohacki, Hello Bernd,

Attached you will find the required information for third car.

The instructions are the same like for the other two cars.

If you have any questions, please do not hesitate to call me. We will be in Ann Arbor on Tuesday to check the car.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4211

Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, August 19, 2010 1:24 PM

To: Johnson, Stuart; Berenz, Sebastian; Reineke, Dennis Subject: In-use vehicles scheduled for next week

Hello.

Listed below is the information for the vehicles that we have scheduled for next week.

Please send the following to me for these vehicles before pick-up.

Please use the attached form:

vehicle target road-load coefficients fuel tank capacity 40% tank capacity tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-

04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax (See attached file: In-Use Parameters Form.xls)

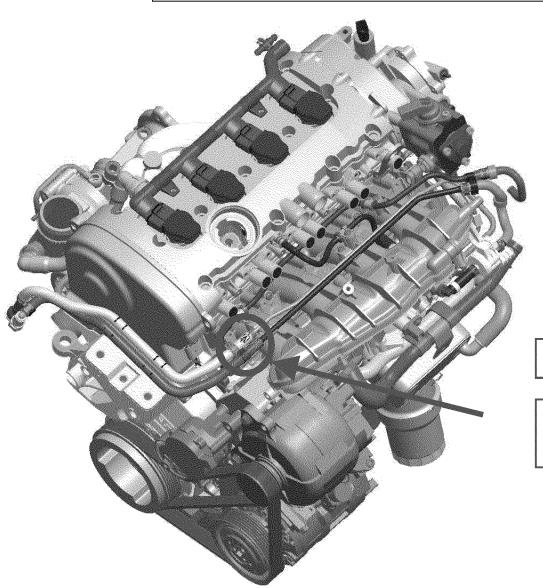


National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

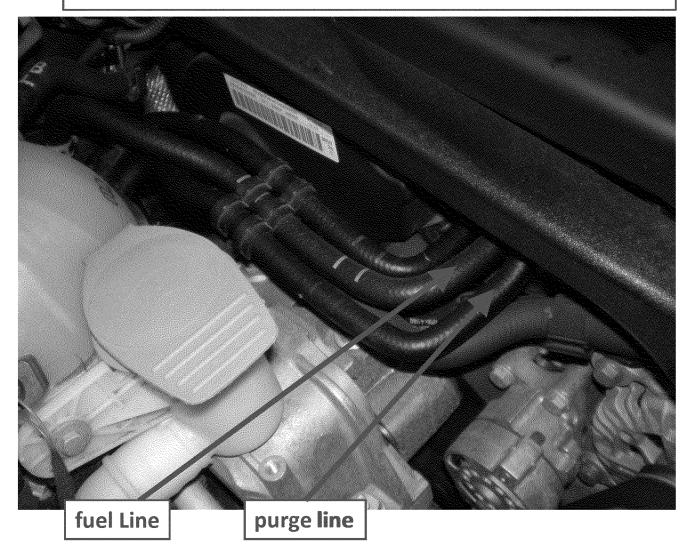
EPA Vehicle Control Number	oer:	N148RX	X-0299				
Equivalent Test Weight :			38	375.0 Pounds			
Nominal Fuel Tank Capaci	ty:			18.5 Gallons	40% Fill	7.	4Gallons
Drive Axle:	front		Front, Re	ar or All whe	el drive		
Tire Pressure:				41PSI			
Mfr. Shift Schedule (if requ	iired)	FTA	FTP	HWA	HWY	USA	US06
Vehicle Target Road-Load	Coefficien	ıts	Vehi	cle Set Road-	Load Coef	ficients	
A 35.07	Lb-force			A 17.09		Lb-force	
B 0.507	*mph		B 0.101		Lb-force*mph		
C 0.014	*mph²		C 0.014		Lb-force*mph ²		
Does this vehicle qualify for relati	xed in-use st	andards a	s set for	th in 40 CFR 86	5.1811-04(p)	'n	_(Y/N)
Vehicle Starting Instruction	ns, includi	ng Tract	ion Co	ntrol disabli	ng:		
see attached document							
To avoid unnecessary delays, please pr	rovide specific	instructions	and pictu	res (if necessary) f	or the following	items:	
Canister Loading Process:	see atta	ched doo	cumen	t			
Fuel Draining Process:	see atta	ched doc	cumen	t			
ABS Disabling Process:	see atta	ched doo	cumen	t			
Fuel Switch Process (Flex Fu		n.a.		-			
Comments:							
				Only			
This information was obtained from: * Letter, e-mail, fax or other docu (attach any of * Verbal instruction from the man * Other (specify)	nment delivered	nation from th	ufacturer	se Only:			
Manufacturer Representative:	Sebastian	Berenz V	WGoA		Date:		8/20/2010
EG&G Representative:					Date.		
EPA Representative:					Date:		

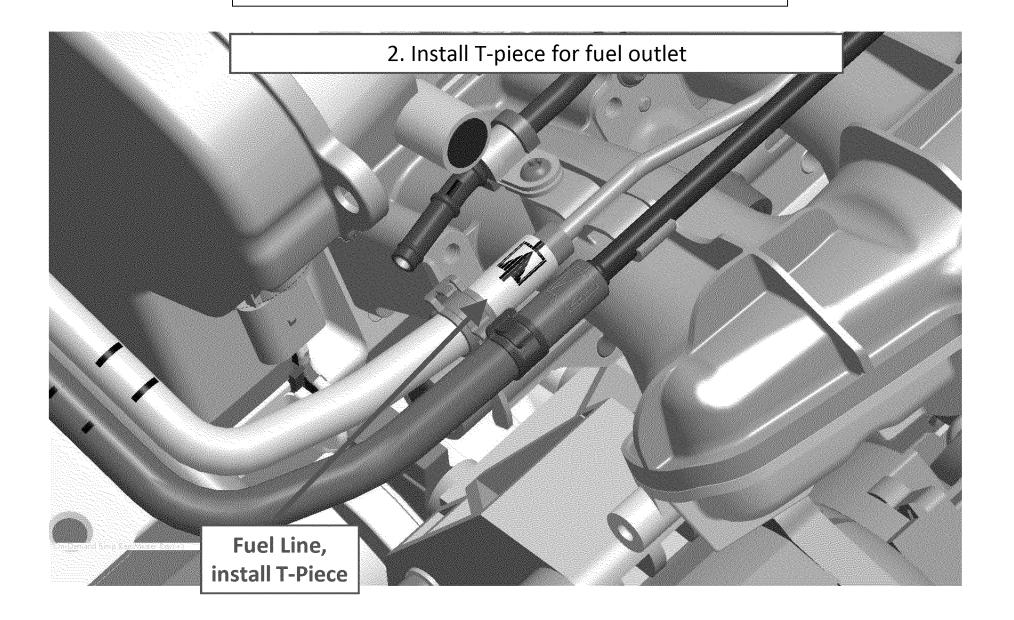


1. Remove Engine Cover

Access to Fuel Line and Purge Line Connections

overview



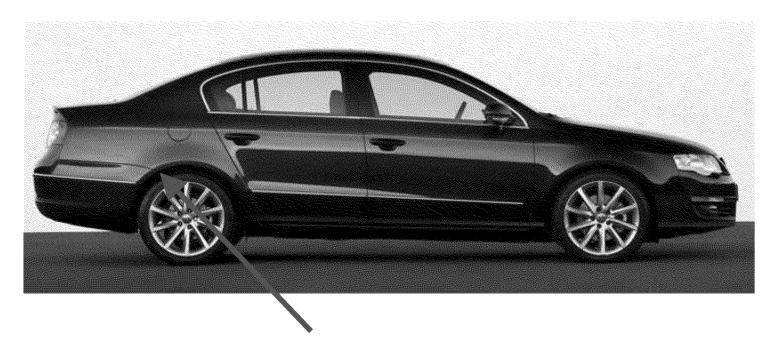


Fuel Drain, Canister Load Port

- 1. Remove Engine Cover
- 2. Install T-piece in fuel line and prepare to drain system
- 3. Activate 12v fuel pump until no more fuel flows. (Should flow with key in on position without engine running. If not, use necessary means to supply fuel pump with 12v)

Carbon Canister Loading

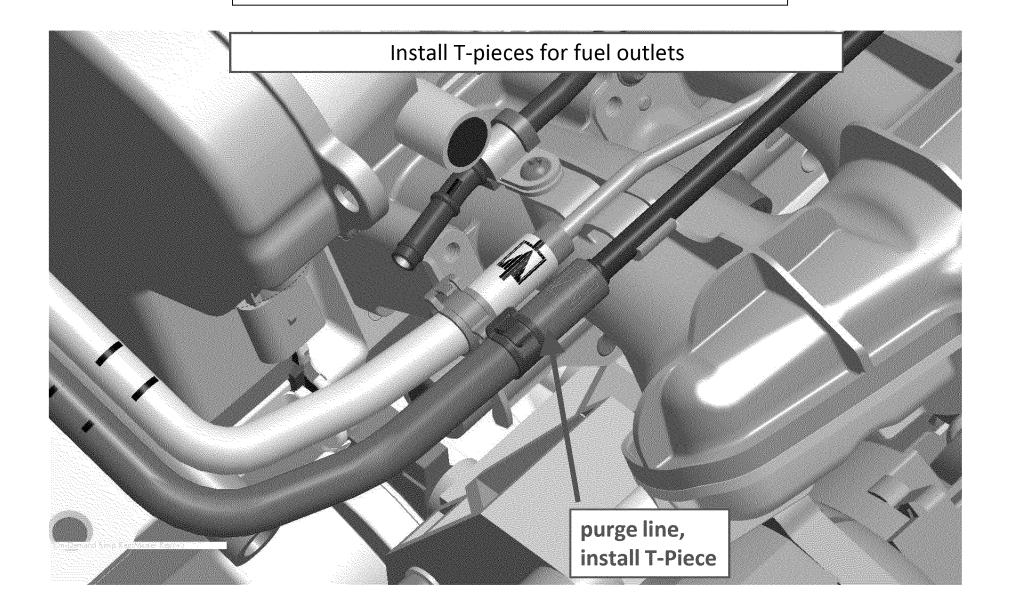
Ventilation Port (rear right Wheel Housing)



Carbon canister is placed in the wheel housing behind the wheel housing liner on the right side of the vehicle.

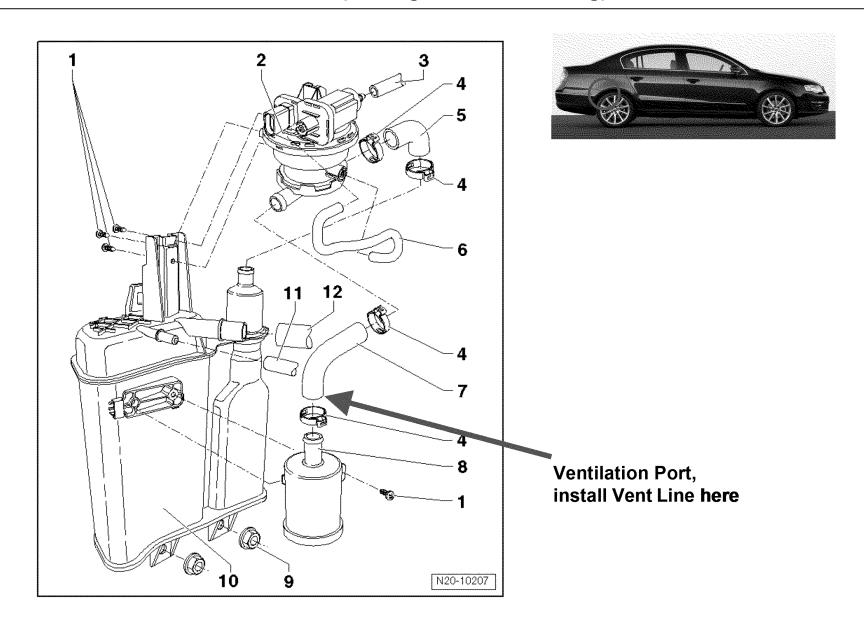
- 1. Remove wheel on the right in the back of the vehicle
- 2. Remove the wheel housing liner
- 3. Now you have access to the carbon canister

Canister Load Port

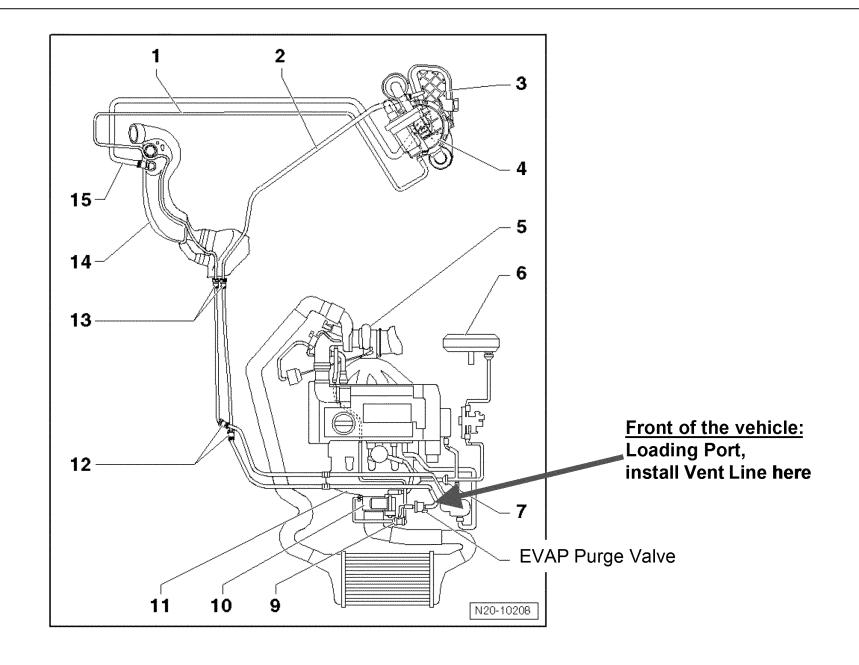


Carbon Canister Loading

Ventilation Port (rear right Wheel Housing)



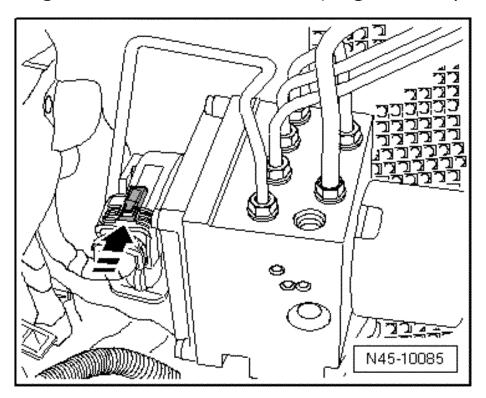
Structure of the Evap. System for Canister Loading/Purging



ABS disabling process

ESP SYSTEM DEACTIVATION:

Remove the Plug on the ABS control unit (Engine Compartment)



To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 8/24/2010 5:13:48 PM

Subject: Re: VW Group: Letter to Allow Porsche to Use VW Test Results

Looks good.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 08/23/2010 03:17 PM

Subject: VW Group: Letter to Allow Porsche to Use VW Test Results

Hello Jim,

The attached letter has been submitted through the Verify System.

The letter grants permission for Porsche to use VW test results from the MY 2011 VW Touareg Hybrid in test group BVWXT03.0HEV for the emissions certification of the Porsche Cayenne Hybrid.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

[attachment "CBI_BVWX_CORRES_LETTER01_R00.PDF" deleted by Jim Snyder/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]

Cc: Bernd Liebner/AA/USEPA/US@EPA;"Johnson, Stuart" [Stuart.Johnson@vw.com];

Johnson, Stuart" [Stuart.Johnson@vw.com]

From: "Berenz, Sebastian"
Sent: Tue 8/24/2010 6:30:24 PM

Subject: RE: In-use vehicles scheduled for next week

Hello Mrs Sohacki,

The right tire pressure is 33lbs. I'm sorry for that incorrect data.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Tuesday, August 24, 2010 9:00 AM

To: Berenz, Sebastian

Cc: Liebner.Bernd@epamail.epa.gov; Johnson, Stuart Subject: RE: In-use vehicles scheduled for next week

Hi, Sebastian.

I have a question from the lab. The tire pressure that is listed on the door jam is 33 lbs. That differs from the pressure indicated on the attached form of 41 lbs. Which is the preferred tire pressure?

Thanks in advance for your response.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" < Sebastian. Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA, Bernd Liebner/AA/USEPA/US@EPA

Cc: "Johnson, Stuart" <Stuart.Johnson@vw.com>

Date: 08/20/2010 08:23 AM

Subject: RE: In-use vehicles scheduled for next week

Hello Mrs. Sohacki, Hello Bernd,

Attached you will find the required information for third car.

The instructions are the same like for the other two cars.

If you have any questions, please do not hesitate to call me. We will be in Ann Arbor on Tuesday to check the car.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211

Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, August 19, 2010 1:24 PM

To: Johnson, Stuart; Berenz, Sebastian; Reineke, Dennis Subject: In-use vehicles scheduled for next week

Hello.		
Listed below is the information for the v	ehicles that we ha	ve scheduled for next week.
N148RXX-0299 (2008 VW/Passat) -	Ex. 6	, 0930 vehicle pick up on 8/24/10 (Tuesday)
Please send the following to me for thes Please use the attached form:	se vehicles before	pick-up.
vehicle target road-load coefficients fuel tank capacity 40% tank capacity tire pressure applicable in-use standards (Does this ve	ehicle qualify for re	elaxed in-use standards as per 86.1811-04(p)?)
To avoid unnecessary delays and correstor:	pondence, please a	also include explicit directions and, if necessary, pictures
disabling traction control, stability con- preferred method for loading the canist preferred fuel drain method any special starting procedures ABS disabling instructions for flex-fuel vehicles, the fuel switch pro-	er	eveling the vehicle may have
	•	along to our contractor, EG&G, and lab personnel. onnel may result in incorrect information being
If you have any questions, please feel from	ee to contact me.	Thank you.
Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax		
(See attached file: In-Use Parameters Fo 0299 Ex. 6 .xlsx)(See Instuctions.pdf)		ned file: In-Use Parameters Form_N148RXX- I Drain

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Tue 8/24/2010 6:48:30 PM

Subject: RE: In-use vehicles scheduled for next week

Thank you, Sebastian.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" < Sebastian. Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Cc: Bernd Liebner/AA/USEPA/US@EPA, "Johnson, Stuart" <Stuart.Johnson@vw.com>

Date: 08/24/2010 02:30 PM

Subject: RE: In-use vehicles scheduled for next week

Hello Mrs Sohacki,

The right tire pressure is 33lbs. I'm sorry for that incorrect data.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211

Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

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----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Tuesday, August 24, 2010 9:00 AM

To: Berenz, Sebastian

Cc: Liebner.Bernd@epamail.epa.gov; Johnson, Stuart Subject: RE: In-use vehicles scheduled for next week

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Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA, Bernd Liebner/AA/USEPA/US@EPA

Cc: "Johnson, Stuart" <Stuart.Johnson@vw.com>

Date: 08/20/2010 08:23 AM

Subject: RE: In-use vehicles scheduled for next week

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If you have any questions, please do not hesitate to call me. We will be in Ann Arbor on Tuesday to check the car.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, August 19, 2010 1:24 PM

To: Johnson, Stuart; Berenz, Sebastian; Reineke, Dennis Subject: In-use vehicles scheduled for next week

Hello.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0299 (2008 VW/Passat) - Ex. 6 D930 vehicle pick up on 8/24/10 (Tuesday)

Please send the following to me for these vehicles before pick-up.

Please use the attached form:

vehicle target road-load coefficients

fuel tank capacity 40% tank capacity tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use

standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

may have*

*disabling traction control, stability control and any load leveling the vehicle

preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki

Environmental Protection Agency (734)214-4851 (734)214-4869 fax

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Wed 8/25/2010 12:26:47 PM **Subject:** Fw: VW416 80218 : 2nd test results

VW416 80218 8-24-10.pdf

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov
----- Forwarded by Jim Snyder/AA/USEPA/US on 08/25/2010 08:26 AM -----

From: Vincent Mazaitis/AA/USEPA/US
To: Jim Snyder/AA/USEPA/US@EPA

Date: 08/25/2010 07:07 AM

Subject: VW416 80218

Jim,

Please find enclosed the Laboratory re-test results for the subject vehicle.

Thanks,

Vince Mazaitis

			NVFFI	Laboratory	Toet Data			
NVFEL Laboratory Test Data Final Laboratory Test Results- Refer to VERIFY Reports for Official Data								cvs
		Test Number	2010-0242-009	TICS. WOIRT FO A	EKIFT Kepon		1 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Test Informatio	n	Test Date:	***************************************	,			VW416 80218	
Test Informatio		Start / Hot Soak:		^		MFR Name		
THITED STORES				9		MFR Codes:	640	ADX
1 60 Y) t	uel Container ID:				Config #:	00	
	G)	Fuel Type:	61 Tier 2 Cert 7	est Fuel		Transmission:		
1/8 77KY 3	4	Test Procedure:	21 Federal fuel	2-day exhaust (w/can loa	Shift Schedule:		
10	Cal	Iculation Method:	Gasoline			Beginning Odometer:		
PROTES	F	Pretest Remarks:						
	•	. otoot . tomamo.				Drive Schedule:	np3bag	
						Soak Period:	20.0 hours	
Bag Data		HC-FID		N/A				
Phase 1			, co	<u>NOx</u>	CO2	<u>CH4</u>	NonMeth HC	
Sampl		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
		19.686	99.822	1.436	1.386	3.159		
Ambier		8.005	0.350	0.002	0.044	2.017		
Net Concentratio	n	12.516	99.509	1.434	1.346	1.352	11.068	
	Remarks	•						
Phase 2								
Sample	е	4.616	22.700	0.104	0.962	1.898		
Ambien		4.801	0.347	0.000	0.043			
Net Concentration		0.160	22.379	0.104		1.983		
not concentration	•	0.100	24.319	0.104	0.922	0.058	0.098	
	D							
DI	Remarks:							
Phase 3								
Sample		3.294	23.324	0.619	1.260	2.089		
Ambien		3.154	0.365	0.006	0.043	1.950		
Net Concentration	1	0.437	22.993	0.614	1.222	0.323	0.092	
					7 1 54 144 144	0.020	0.082	
						•		
	Remarks:				*			
Phase 4								
Sample	1							
Ambient								
Net Concentration	•				•			
rec Concentiation								,
	Remarks:							
Results		HC-FID	<u>co</u>	<u>NOx</u>	<u>CO2</u>	CH4	NMHC / NMOG	Vol MPG
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	
	Phase 1	0.117	1.874	0.040	398.4	0.015	0.103 / 0.107	(mpg)
	Phase 2	0.002	0.672	0.005	435.0	0.001		22.130
	Phase 3	0.004	0.431	0.017	359.7		0.001 / 0.002	20.388
	· · · · · · · · · · · · · · · · · · ·	**************************************	J. , () 1	0.011	JJB./	0.003	0.001 / 0.001	24.671
	Weighted	0.02655	0.85499	0.04500	400 740		NMOG=1.04xNMHC)	1
uel Economy		CONTROL OF THE PARTY OF THE PAR	U.UJ-198	0.01523	406.743		0.0224 / 0.0233	
uvi Luvillilly		Gasoline MPG				<u>Dyno Settings</u>	Dyno #:	
	Phase 1	22.11					Inertia:	
	Phase 2	20.37					EPA Set Co A:	
	Phase 3	24.65					EPA Set Co B:	
							EPA Set Co C:	
		ž.		.				·····
· · · · · · · · · · · · · · · · · · ·	Weighted	21.75	•			Em	issions Bench:	מחמי
/100414 - d002EF	AVDAEm 1008	324102110		Page 1 of 2		L-11		
V	***************************************			Q VI			Print Lime	24-Aug-2010 11:39

			NVFEL	Laboratory T	est Data			cvs
		Final Laborat	ory Test Resul	Its- Refer to VER	SIFY Reports for	Official Data		
esults		Test Number: 2					VW416 80218	
THED STATES		(grams)	CO	NOx	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	Meth Respons
in the	Phase 1	0.421	(grams) 6.757	(grams)	(grams)	(grams)	(grams)	1.071
	Phase 2	0.009	2.603	0.143 0.018	1436.7	0.053	0.372	
[B CZZZ]	Phase 3	0.015	1.554	0.061	1684.9 1297.3	0.004	0.006	
PATAL PROTECTION	. ,,,,,,,	0.010	1,004	0.001	1297.3	0.012	0.003	
est Conditions			Phase 1	Phase 2	Dhan- 2			
	Ba	rometer (inHg)	29.14	29.14	<u>Phase 3</u> 29.14	Phase 4		
	Ava Ce	Il Temp (degF)	75.27	75.30	29.14 75.40			
	De	w Point (degF)	47.22	47.48	46.95			
Spe	ecific Humid	ity (grains/lbm)	49.49	50.00	48.99			
•	N	Ox Corr Factor	0.8929	0.8948	0.8911			
CO2 Dilution Factor			9.588	13.894	10.609			
		nix (scf @68F)	2059.68	3528.02	2049.83			
ı	CVS Flow R	ate Avg (scfm)	244.67	243.37	243.45			
	F	an Placement: O	ne Fan - Doum	Eront				
	Phas	se Time (secs)	505.10	869.80	505.20			
		stance (miles)	3,606	3.873	3.607			
		is Time (secs)	74.9	74.0	74.0			
	,	,		7 110	14.0			•

MFR Test Results

for Procedure 21 Federal fuel 2-day exhaust (w/can load)

MFR Number 1E+07

<u>HC</u> 0.0202

NonMeth HC

Odometer 4239 M

MFR Lab: Volkswagen AG, Dept EASZ/1

MPG is 7.60 % higher than EPA MPG

Dyno: 21

Fuel: 61 Tier 2 Cert Gasoline

Fuel by Start for St

Validated By:

v100414 - d002

_EPAVDAEm100824102110

Page 2 of 2

Print Time 24-Aug-2010 11:39



NVFEL Laboratory Test Data

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2010-0242-010

Test Date: 8/24/2010

MFR Name AUDI

Vehicle ID: VW416 80218

MFR Codes: 640

ADX

Test Information



Key Start: 12:13:15

Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Calculation Method: Gasoline

Pretest Remarks:

Config #: 00 Transmission: MANUAL Shift Schedule: A06400036

Beginning Odometer: 004569.0 MI

Drive Schedule: hwfet_hwfet

Bag Data	HC-FID	CO	<u>NOx</u>	CO2	CH4	NonMeth HC
<u>Phase 1</u>	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	2.971	6.434	0.200	1.063	i.962	4.1
Ambient	2.798	0.480	0.018	0.043	1.950	
Net Concentration	0.395	5.992	0.184	1.023	0.167	0.216

Remarks:

Phase 2

Sample **Ambient** Net Concentration

Remarks:

Phase 3

Sample Ambient Net Concentration

Remarks:

Phase 4

Sample **Ambient** Net Concentration

Remarks:

Results		<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	CO2	<u>CH4</u>	NMHC / NMOG	Vol.MPG
	Phase 1	(gpm) 0.003	(gpm) 0.093	(gpm) 0.004	(gpm) 248.4	(gpm) 0.001	(gpm) 0.002 / 0.002	(mpg) 35.777

(NMOG=1.04xNMHC)

Fuel Economy	***************************************	oline MPG	Coastdwn secs	<u>:</u> 17.49 [Dyno Settings Dyno #: D002
	Phase 1	35.74		17.49	Inertia: 3875
				17.48	EPA Set Co A: 15.56
					EPA Set Co B: -0.1295
					EPA Set Co C: 0.02613
		±	4		
				17.49	Emissions Bench: D002
v100414 - d002EF	PAVDAEm10082411	[4353	Page 1 of 2		Print Time 24-Aug-2010 12:39

8/24/2010 12:39 PM

20080609183200

VTAURdxxx.xls

2017-FFP_001420

NVFEL Laboratory Test Data CVS Final Laboratory Test Results- Refer to VERIFY Reports for Official Data Test Number: 2010-0242-010 Vehicle I Vehicle ID: VW416 80218 Results CO <u>NOx</u> CO₂ **NMHC** Meth Response (grams) (grams) (grams) (grams) (grams) (grams) 1.071 Phase 1 0.031 0.951 0.043 2551.5 0.015 0.017 Test Conditions Phase 1 Phase 2 Phase 3 Phase 4 Barometer (inHg) 29.13 Avg Cell Temp (degF) 75.41 Dew Point (degF) 47.29 Specific Humidity (grains/lbm) 49.65 NOx Corr Factor 0.8935 CO₂ Dilution Factor 12.595 CFV Vmix (scf @68F) 4811.95 CVS Flow Rate Avg (scfm) 377.41 Fan Placement: One Fan - Down - Front Phase Time (secs) 764.99 Distance (miles) 10.274 Bag Analysis Time (secs) 73.9 MFR Test Results for Procedure 3 HWFE MFR Number <u>HC</u> <u>NOx</u> CO2 **NMOG** NonMeth HC 1E+07 0.0081 0.021 0.0046 <u>Odometer</u> **MPG** MFR Lab: Volkswagen AG, Dept EASZ/1 4266 M 36 MPG is 0.72 % higher than EPA MPG Dyno: 21 Fuel: 61 Tier 2 Cert Gasoline I have validated the data in accordance with the requirements of TP 730

v100414 - d002____EPAVDAEm100824114353

Validated By:

Page 2 of 2

Print Time 24-Aug-2010 12:39

06/20/2017

_____ Date: 8-24-10

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Hart, Robert (VWoA)"

Sent: Wed 8/25/2010 7:56:28 PM

Subject: VW Group: Test Type Question

image001.gif image002.gif

Hello Jim,

The tests listed for the Touareg Hybrid (T.G.: BVWXT03.0HEV) in Verify are 1 FTP, 1 HWFE and 2 US06 (I'm guessing one 2-Bag and one 1-Bag w/PM). See highlighted info below.

The FTP is listed as type 21 which is a standard Federal fuel 2-day exhaust (w/can load).

Is this correct or will it be a UDDS? Is this just a limitation of the Verify System - maybe it hasn't been coded to indicate a UDDS test yet?

Bob Hart

Vehicle selected for Test VW526710023, Supplemental Information needed - Message

From:

Verify Administrator

Subject:

Vehicle selected for Test VW526710023, Supplemental Information needed

Date:

Fri 8/13/2010 1:26 PM

Your recent submission has been selected by the EPA for Confirmatory Testing for the following vehicle: Manufacturer: VWX Vehicle ID: VW526710023 Vehicle Configuration: 0 Please submit your supplemental information as soon as possible so that the EPA can schedule a test date. Below are the specific tests that will be run: 3 - HWFE 61 - Tier 2 Cert Gasoline 21 - Federal fuel 2-day exhaust (w/can load) 61 - Tier 2 Cert Gasoline 90 - US06 61 - Tier 2 Cert Gasoline 90 - US06 61 - Tier 2 Cert Gasoline

Manufacturer Code: VWX

Vehicle ID: VW526710023

Vehicle Configuration #: 0

Test Group Name: BVWXT03.0HEV

Transaction Identifier: _edc7f15d-c98b-40ac-9520-7f64fb8b3c88

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

Phone: (248) 754-4224

Fax: (248) 754-4207

E-mail: robert.hart@vw.com

2

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Wed 8/25/2010 8:20:57 PM

Subject: EPA's Confirmatory Maintenance Form N001c-002c TELEPHONE QUESTIONNAIRE.doc

N001 maintenance before FTP.doc

Hi, Sebastian.

Attached is the form that we use during maintenances for vehicles in a confirmatory class. There are a few items that I need you to provide. I've indicated those things in red. Please fill in the blanks and return the file to me. Please also let me know if you have any questions.

In case you are interested in seeing the telephone questionnaire, I've attached that as well.

Thanks,

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

1

OMB No. 2060-0086 Expires (02/08/2011)

TELEPHONE QUESTIONNAIRE FOR CONFIRMATORY CLASS:

VEHICLE CONTROL NUMBER	DATE	
ADMINISTERED BY		
STREET ADDRESS		
CITY(CALL NUMBER BELOW THAT :	_STATEZIPIS MARKED WITH AN "X")	
TELEPHONE (Home) //	(Business) //	
BEST TIME TO CALL		
	ERAL LAW TO COLLECT THIS INFORMATION. WIND, YOUR COOPERATION IS NEEDED TO MAKE TO WALID."	
DATE OF CONTACT	TIME OF CONTACT	
INDIVIDUAL CONTACTED		
TO BE COMPLETED	DATE AND TIME OF COMPLETION	
You have been selected from a list of vehic vehicle emissions being conducted by the U	ele owners living in the Ann Arbor / Detroit area to participate in a J.S. Environmental Protection Agency.	a study of
EPA is authorized by law to conduct this stream participate. Your participation in this programmer.	udy and to offer incentives to you for your cooperation should yo	u decide to

The accuracy of the information that you provide is important. The information that you provide will be used by EPA along with emission results for your car to determine whether the automobile manufacturer has complied with clean air standards established by Congress. The test results from your car will not be used by EPA to take action against you. Your cooperation will help EPA's efforts to control air pollution due to motor vehicle emissions.

Public reporting burden for this collection of information is estimated to vary from $\underline{1}$ to $\underline{60}$ minutes per response, with an average of $\underline{30}$ minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Director, Regulatory Information Division, 2136, U.S. Environmental Protection Agency,401 M St., S.W. Washington, DC. 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

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These are the conditions of the program:

We ask that you bring your vehicle into our testing facility where you will receive either a cash incentive for each day we keep your vehicle or a late model loaner car which will have a full tank of gas and unlimited mileage. This vehicle is yours to use without charge for the duration of the testing, which takes approximately three to four weeks. During this time, we will be performing a series of tests on your vehicle to measure vehicle emissions.

-at the time the vehicle is delivered to us for testing, you will be required to sign a form stating that the answers to the questions you will be asked are true and accurate to the best of your personal knowledge and belief.

We will provide you the following <u>incentives</u> for participating in our program:

-If your vehicle is accepted into the program, a full tank of gas and a cash incentive will be awarded. You will receive \$50 per day for each day your vehicle is at NVFEL, and the use of a fully-insured loan car; or \$75 per day for every day your vehicle is at NVFEL in lieu of a loan car. However, if your vehicle is rejected after you bring it to the lab, but before you leave, you will receive a \$20 payment.

The compensation will be based upon whole days, beginning with the day your car arrives. It will end one day after you are notified your vehicle is ready for return.

The maintenance performed on your vehicle will depend on program requirements. You will be given a list of any parts that are replaced.

Are you willing to participate? YES/ /	NO/ /
If you are not, may we ask why not?	

IF RESPONSE IS POSITIVE:

For the purpose of this study, I am going to ask you some questions about your vehicle's maintenance and usage history. You should answer these questions to the best of your knowledge and indicate when you are not sure of something.

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FOR "MPF PERSONNEL" ONLY

SENTENCES IN CAPPITAL LETTERS ARE INSTRUCTIONS TO THE CLERK AND ARE NOT INTENDED TO BE READ TO THE OWNER.

1. a. What are the model year, transmission type, vehicle identification number and engine family of your vehicle? The engine family can be found on a Vehicle Emission Control Information decal located <u>under the engine hood</u>.

The engine family should start with the letters <u>8</u> <u>A</u> <u>D</u> .
/ Owner is unable to locate.
/ Owner located. ENGINE FAMILY
/ Engine family located when vehicle arrived at the Lab.
ENGINE FAMILY
ELIMINATE IF ENGINE FAMILY IS NOT <u>8ADXV03.1374</u>
b. MODEL VEHICLE ID NO
MODEL YEAR
TRANSMISSION: AUTOMATIC / / AIR CONDITIONED: YES/ / NO/ / MANUAL / / ODOMETER MILEAGE:
ELIMINATE IF MILEAGE IS UNKNOWN OR OVER 75,000 MILES. VEHICLES WITH MILEAGE OVER 50,001 SHOULD BE ASSIGNED TO CLASS N002C
c. Has the odometer ever not functioned properly?
YES/ / NO/ /
If yes, approximately how long (months/miles) was it inoperable?
CONSULT EPA FOR ELIGIBILITY IF THE RESPONSE IS "YES"
2. a. When and where did you obtain your vehicle? When
b. Was the vehicle utilized as a demonstrator prior to you purchase? YES/ / NO/ / DO NOT KNOW / /

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EE#8ADYV03 1374

N001C/N002C	2008 V W/Audi	EF#8ADX VU3.13 /4		
IF THE ANSWER IS YE	ES, ELIMINATE VEI	Control No.N001c/N002cRX HICLE. CONSULT EPA IF DO		
c. What was the m	nileage at the time of p	urchase or lease.	_	
CONSULT EPA	IF MILEAGE IS OV	ER 400.		
d. Are you the or	riginal purchaser or le	ssee of the vehicle?		
YES/ /	NO/ /			
· · · · · · · · · · · · · · · · · · ·		MBERED QUESTION. IF OF TE FAMILY MEMBER, GO		
e. Have you be vehicle was n	-	nsible for fueling, repairs an	d maintenan	ce since the
YES/ /	NO/ /			
IF NO, ELIMINA	ATE.			
		EPA or VW/AUDI emission p N EMISSIONS CHECKS ARE		DED)
YES/ /	NO/ /			
CONSULT EPA	FOR ELIGIBILITY I	F YES.	MEG	210
4. Has your vehicle ex	ver been used as a taxi	?	YES	NO
5. Has your vehicle ev	ver been used as a com	nmercial delivery vehicle?		
6. Has your vehicle ev	ver been used to race i	n competitive speed events?		
7. Have you ever used	d your vehicle in sever	e dust conditions?		
8. Have you ever used	d your vehicle to plow	snow?		
9. Has the fuel pipe re	estrictor been modified	d or removed from your vehicle?	·	
(FOR TRUCKS I		ESPONSE TO QUESTIONS A POSITIVE RESPONSE TO 6		9.

YES/ / NO/ /

our vehicle other than
_

REMIND THE OWNER TO REMOVE LOOSE ITEMS FROM ALL COMPARTMENTS IN THE

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EF#8ADXV03.1374 Control No.N001c/N002cRXXC

TRUCK BED BEFORE BRINGING IT IN. CONSULT EPA IF THERE IS A POSITIVE RESPONSE FOR ANY OF THE ABOVE ITEMS.
14. a. How many times per year do you drive on unpaved roads?
b. What percent of your mileage do you estimate you drive on unpaved roads?
ELIMINATE IF OVER 5%. (DELETE THIS QUESTION FOR TRUCK CLASSES)
15. Have you ever used any fuel other than that recommended by the manufacturer in your vehicle? (ex. leaded, E85)
YES / / NO / /
If Yes, what have you used?
How often have you used it?
When was the last time you used it?
IF YES, CONSULT EPA FOR ELIGIBILITY.
16. Have there been any problems with the catalytic converter? YES/ / NO/ / DON'T KNOW / /
If yes, describe
CONSULT EPA IF YES OR DON'T KNOW.
17. Have any settings been misadjusted or have the emission control system components been altered, modified or disconnected?
YES/ / NO/ /
If yes, explain what, when, and where.
WHAT
WHEN
WHERE

IF YES, CONSULT EPA FOR ELIGIBILITY.

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18. a. Has your vehicle ever overheated?

1) Never
2) One Time
3) More than One Time
ELIMINATE IF VEHICLE HAS OVERHEATED MORE THAN ONCE. IF VEHICLE HAS OVERHEATED ONCE, OBTAIN RESPONSES TO b,c AND d, THEN CONSULT EPA.
b. How did you know the vehicle overheated?
1) Temperature Gauge or Light
2) Steam From Under the Hood
3) Other
c. How far was the vehicle driven in an overheated condition?

19. a. Has your vehicle ever been involved in an accident?

CONSULT EPA IF 1 OR 2; ELIMINATE IF 3. d. When and where did vehicle overheat and what did you do?

YES/ / NO/ /

1) Less than a mile

3) Greater than 3 miles

2) 1-3 miles

IF YES COMPLETE QUESTIONS (b), (c), (d), and (e).

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1) Engine	
2) Cooling System	······
3) Carburetor or Fuel Injection System	
4) Exhaust System	
5) Fuel Tank	
6) Ignition System	
7) Emission Control System	
8) Other (Specify)	
	amage and the circumstances of the accident
"yes" for any of 1 to 8 describe the described the descr	
"yes" for any of 1 to 8 describe the described the descr	amage and the circumstances of the accident
"yes" for any of 1 to 8 describe the described the d	amage and the circumstances of the accident
"yes" for any of 1 to 8 describe the described the	amage and the circumstances of the accident
"yes" for any of 1 to 8 describe the described the	amage and the circumstances of the accident and circumstances of the circumstances of the accident and circumstances o
"yes" for any of 1 to 8 describe the described the des	amage and the circumstances of the accident and circumstances of the circumstances of the accident and circumstances o

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YES/ / NO/ / IF YES, GO TO b and c.

operation at any time other than start up?

b. Describe the circu	mstances of each occuri	rence:	
c. How many mi more than one instar		en with the light on l	pefore repairs were made? (If
ELIMINATE IF D	RIVEN MORE THAN 1	,000 MILES IN ANY	ONE INSTANCE.
d. What was done	e to repair the vehicle af	fter the light came or	n?
(IF MORE	THAN ONE INSTANC	E, LIST FOR EACH.)
IF REPAIRS	WERE MADE WITHIN	1,000 MILES, CONS	SULT EPA FOR ELIGIBILITY.
21. a. When were the	e oil and oil filter <u>first</u> c	hanged after obtaini	ng the vehicle?
Date _	M	ileage	
CONTACT EPA	IF MORE THAN <u>10,500</u>	MILES OR <u>13 MON</u>	<u>TTHS</u>
b. When were th	e oil and oil filter chang	ed the <u>second</u> time a	fter obtaining the vehicle?
Date _	N	Mileage	
CONTACT EI FIRST TIME.	PA IF THE INTERVAL	IS MORE THEN <u>11,</u>	500 MILES AFTER THE
	AS RECORDS SHOWI BTAIN THE FOLLOW		IILEAGE OF OIL AND FILTER ON:
How many oil	l and oil filter changes h	ave you had?	
(IF FILTER CHANG	GE WAS PERFORMED, IN	DICATE BY CHECK M	IARK IN PROVIDED SPACE).
DATE	OIL CHANGE / /	DATE	OIL CHANGE / /
MILEAGE	OIL FILTER / /	MILEAGE	OIL FILTER / /

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changes?

EF#8ADXV03.1374 Control No.N001c/N002cRXXC

DATEOIL CHANGE / /	DATEOIL CHANGE / /
MILEAGEOIL FILTER / /	MILEAGEOIL FILTER / /
PERFORMED BY	PERFORMED BY
DATEOIL CHANGE / /	DATEOIL CHANGE / /
MILEAGEOIL FILTER / /	MILEAGEOIL FILTER / /
PERFORMED BY	PERFORMED BY
DATEOIL CHANGE / /	DATEOIL CHANGE / /
MILEAGEOIL FILTER / /	MILEAGEOIL FILTER / /
PERFORMED BY	PERFORMED BY
DATEOIL CHANGE / /	DATEOIL CHANGE / /
MILEAGEOIL FILTER / /	MILEAGEOIL FILTER / /
PERFORMED BY	PERFORMED BY
1) At what interval is oil changed: t 2) At what interval is filter changed 3) Is oil / oil-filter changed in respo	GES, BUT CHANGES ARE BASED ON TIMPLETE THE FOLLOWING:
	nd mileage your vehicle has gone between oil
MONTHS	MILES RE THAN <u>11,500 MILES OR 14 M</u> ONTHS.
CONTACT EPA IF EITHER IS MOI	RE THAN 11.500 MILES OR 14 MONTHS.

(SEE c AND d ABOVE TO VERIFY AND/OR CALCULATE THIS ANSWER.)

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N001c/N002c 2008 VW/Audi EF#8ADXV03.1374

MONTHS	Control No.N001c/N002cRXXC
CONTACT EPA IF EITHER M	MORE THAN <u>11,500 MILES</u> OF <u>14 MONTHS</u>
g. What was the approximate date of	your last oil and oil filter change?
OIL CHANGE: DATE	E MILEAGE
PERFORMED BY	
OIL FILTER CHANGE:	DATE MILEAGE
PERFORMED BY	
22. a. IF OWNER ALSO HAS RECO OBTAIN THE FOLLOWING INFOR	ORDS SHOWING DATES AND MILEAGE OF TUNE-UPS, MATION.
	d a routine tune-up maintenance such as: ignition (or spark) t and spark plug replacement? If possible, please state what
DATE / / IGNITION T	IMING / / FUEL SYSTEM* ADJUSTMENT
MILEAGE	/ / SPARK PLUG REPLACEMENT
PERFORMED BY	
DATE/ / IGNITION TI	MING / / FUEL SYSTEM* ADJUSTMENT
MILEAGE	/ / SPARK PLUG REPLACEMENT
*Carburetor or Fuel Injection System	HANGE INTERVAL WAS EVER GREATER THAN <u>40,600</u>
	CORDS OF TUNE-UPS, BUT TUNE-UPS ARE EAGE INTERVALS, COMPLETE THE FOLLOWING:
At what interval is tune-up maintenance Months Mil	
2) What is the longest interval between spa Months Mil	ark plug changes?
3) Who performs this work?	

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CONTACT EPA IF SPARK PLUG CHANGE INTERVAL WAS EVER GREATER THAN 40,600 MILES.

Description Date Mileage Performed by Description Date Mileage Performed by	Description		
Description Date Mileage Performed by d. What is the largest amount of money you have ever spent for maintenance or re your car? dollars don't know WHAT WHY	Date	Mileage	
Date Mileage Performed by Description Date Mileage Performed by At What is the largest amount of money you have ever spent for maintenance or re your car? dollars don't know WHAT WHY	Performed by _		
Description Date Mileage Performed by d. What is the largest amount of money you have ever spent for maintenance or re your car? dollars don't know WHAT WHY	Description		
Date Mileage Performed by d. What is the largest amount of money you have ever spent for maintenance or re your car? dollars don't know WHAT WHY	Date	Mileage	
Date Mileage Performed by d. What is the largest amount of money you have ever spent for maintenance or re your car? dollars don't know WHAT WHY	Performed by _		
Performed by d. What is the largest amount of money you have ever spent for maintenance or re your car? dollars don't know WHAT WHY	Description		
d. What is the largest amount of money you have ever spent for maintenance or re your car? dollars don't know WHAT WHY	Date	Mileage	
d. What is the largest amount of money you have ever spent for maintenance or re your car? dollars don't know WHAT WHY	Performed b	у	
WHAT	I. What is the		
WHY		dollars	don't know
	WHAT		
WHEN	WHY		
	WHEN		

23. a. Has any unscheduled maintenance (i.e., maintenance to correct a problem) bee	en
performed on your vehicle in the following areas?	

	<u>YES</u>	<u>NO</u>
Engine		
Fuel injection		
Transmission, drive shaft, axle		
Exhaust system		
Ignition system/Electrical system		
Cooling system		
Fuel tank		
Emission control system		
Oxygen Sensor		
Computerized engine system		
Other		

b. If the answer to any of the above items is yes, please describe what, why, when, and where.

WHAT
WHY
WHEN
WHERE
WHAT
WHY
WHEN
WHERE
WHAT
WHY

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EF#8ADXV03.1374 Control No.N001c/N002cRXXC_____

WHEN	
WHERE	
CONSULT EPA FOR ELIGIBILITY IF Q	
24. a. Have you had any performance or (Including problems described in question)	
YES / / NO / /	
IF NO, GO TO NEXT NUMBERED QUES	STION.
If yes, describe:	
b. Would the problems you described fall	ll into any of the following categories? Never Occasionally Frequen
1) Hard Starting	
2) Poor Cold Performance	
3) Poor Acceleration	
4) Hesitation5) Stalling	
6) Dieseling (after run)	
7) Back firing	
8) Stumbling	
9) Engine Knock	
10) Rough Idle	
11) Engine Misfiring12) Other	·
Describe other problems?	·
c. What was done to eliminate performa	nce problems(s)?
WHAT	
WHEN	
WHAT	

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EF#8ADXV03.1374 Control No.N001c/N002cRXXC____

WHEN
WHERE
d. When did the problems you mentioned above occur?
1) When you first obtained the vehicle?
2) With normal use, but prior to any maintenance performed on your vehicle?
3) After maintenance by
e. How long did each problem exist?
f. Do you still experience performance problems?
YES / / NO / /
Describe the problem
g. Would you say the general performance of your vehicle is:
/ / 1) Better than when you obtained it?
/ / 2) Worse than when you obtained it?
/ / 3) About the same as when you obtained it?
h. What percent of your driving is done:
In the city (stop and go driving)?%
On the Highway?%
CONSULT EPA FOR ELIGIBILITY IF QUESTION (c) IS ANSWERED
25. Have you ever operated your car so as to cause it to idle for extended periods of time (i.e., for more than 15 minutes)?
NO / YES / / APPROX. NO OF TIMES
IF NO, GO TO NEXT NUMBERED QUESTION.

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EF#8ADXV03.1374 Control No.N001c/N002cRXXC____

	Describe the circum	nstances for each	n case:			
	IF YES, CONSU	LT EPA FOR I	ELIGIBILITY.			
26. H	lave you ever used	synthetic oil ir	n your vehicle's	s engine?		
	NO / / YES /	/ DON'T	KNOW / /			
	If Yes, how many t	imes?		, what bran	d?	
27. I	Have you ever recei	ived notice tha	t your vehicle	was invol	ved in a recall	campaign?
	NO / / YES /	/, approxima	ate date			
28. a	. Describe the recal	ll or give the re	ecall number _			
b	o. Did you take you	r vehicle to a c			repair?	
	YES / / NO /	/				
	. Are the original ti ehicle?	ires, which we	re on the vehic	le when it	was first purc	hased, still on the
	YES / / NO /	/ IF YES	SKIP TO 29b.			
	IF NO, are any orig	ginal tires still on	the vehicle now	?		
	YES / / NO /	/ IF NO, SK	IP TO 29b.			
	Where are the ren		-		,	e., left-front, right-rear,
	What is the date of IF WITHIN 60 D	of the most rece AYS, CHECK	ent tire replacem WITH EPA RE	nent? EP.		
b	. What are the mal (i.e. Radial or Bi	•			*	70R14). Construction icle's tires.
	Left front	Make	Model		Construction	* 1

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N001c/N002c	2008 VW/Audi	
Right front		Control No.N001c/N002cRXXC
Left rear		
Right rear		
30. Are the original rims	s, which were on the	vehicle when first purchased, still on the vehicle?
YES / /	NO / / CONSUL	T EPA IF NO.
If NO, exp	olain	
31. Have these tires ever etc.)	been repaired? (e.g	g. flat tire repaired with a plug or a foam product,
YES / /	NO / / DON'T' I	KNOW / /
IF YES, D	ESCRIBE	
CONSULT	ΓEPA IF YES OR DO	ON'T KNOW.
32. a) Have you kept rec	ords of the maintena	ance and repairs performed on your vehicle?
YES / / NO / /	1	
EPA personnel. Frequen	itly, records pertaini	trunk will need to be opened during by URS and ing to the vehicle's maintenance history are found in provided by you and those found) to be reviewed and
YES / / NO / /	1	
33. EPA needs to share y vehicle. Do you agree to		cords with the manufacturer to correctly test the
YES / / NO / /	l	
IF RECORDS ARE A brought to the lab for	AVAILABLE, <u>INFO</u> r review and duplica	RM OWNER THAT: It is important that they are ation.
INFORM THE OWN	ER THAT:	

All valuables should be removed from the vehicle (including those in the glove box) prior to bringing the vehicle to the lab.

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EF#8ADXV03.1374 Control No.N001c/N002cRXXC

ALSO <u>INFORM THE OWNER</u> THAT: Due to the location of some systems, the glove box and trunk may need to be opened during maintenance by EPA and/or EPA contractors. Any records pertaining the vehicle's maintenance history found in the vehicle may need to be copied.

4. Has your vehic	le receive	d body or gl	ass repair, or been partially or totally repainted?
	Yes _	No	
If yes: what, whe	n, by whon	n and cost.	
VVFICIN			COST
5. Has your vehic	le ever be	en equipped	l with rustproofing or undercoating?
-	Yes	No	don't know If "yes", when and by whom.
Δ	CCEPT V	WHATEVER	R THE ANSWER IS

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N001c/N002c	2008 VW/Audi	EF#8ADXV03.1374 Control No.N001c/N002cRXXC
		Control Ivo.Ivoo1c/Ivoo2ciCAAC
		VIN
C e		
		County of
I,		
being first duly s	worn, depose and say:	
the vehicle de discussed her	escribed in this question ein. I have read the res	int owner () and/or principal driver () of naire and have personal knowledge of all matters ponses to the questions stated above, and such the best of my knowledge and belief.
		(Signature)
		(Date)
		(240)
		ry Public, and I hereby certify that I am duly gan, County of Washtenaw, to administer oaths.
		(Seal)
Notary Public		
(Date)		
, ,	eog.	
My commission expir	es:(Date)	

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VW FOIA, EPA 06/20/2017 2017-FFP_001443

QUALIFICATION OF MAINTENANCE INFORMATION

Please cl	neck one of the following if the candidate owner is not the original owner of vehicle
	No, the present owner is not the original owner of the vehicle, but does have knowledge of its maintenance history. The answers on the telephone questionnaire are complete and accurate for the entire maintenance history of the vehicle. The reason for the owner's knowledge of the vehicle's history before its purchase has been noted below.
_	
_	
_	
	No, the present owner is not the original owner and does not know the complete maintenance history of the vehicle. The answers to the telephone questionnaire are complete and accurate for the period after the purchase at miles. Oil, filter and spark plug change intervals reported are those known to have occurred after that mileage. Events that occurred prior to that mileage are not included.

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The present mileage on this vehicle is approximately	 _•

Signature of Procurement Clerk

8ADXV03.1374

Confirmatory Class #:N001c/N002cRXX-____

IN-USE TESTING MAINTENANCE BEFORE FTP

VEHICL	E CO	ONTROL #	<u> </u>	VIN	N		
VEHICL	ЕМ	ODEL		ENGI	NE FAMILY _		
					(Speeds if-	SSION	
ODOME	TER			EVAP FA	MILY	FUEL	
DATE _				TIME		TYPE	
NOTE: I	f an	y of the fol	lowing items are	not applica	able to the veh	icle being inspected,	mark N/A.
1. Record			information: uild date				
	b.	Actual tir	e sizes Left Fron	ıt	Right F	ront	
			Left Rear	·	Right I	Rear	
	c.	GWR	Front	Rear	e. CO	LOR: Exterior	
	d.	Recall ca	mpaign sticker	/ /YES	/ /NO	Interior	
		Recall ca	mpaign number	from sticker	r		
		None fou	nd				
nozzle to	dete	ermine if re	strictor is operat	ional.		the unleaded fuel res	
REJECT	IF R	ESTRICT	OR IS DAMAG	ED OR LEA	ADED NOZZ	<u>LE FITS INTO FUEL</u>	FILLER NECK
3. Remov	e a s	sample of f	uel from the tank	and delive	er to chem. lab	for analysis.	
4. Determ	nine	the axle ra	tio; make 10 whe	eel revolution	ons (applicable	e to rear-drive only).	
		(no. of dr	iveshaft revoluti	ons X2) =	=	X 2 =	
		(no. of w	neel revolutions)		10		
			ALL THE ABOVE I	TEMS HAVE B	EEN PERFORMEI)	
MECHANIC		MAN	/_ UFACTURER REPRE	SENTATIVE	EPA REPRESE	NTATIVE	

	2008 Audi A4 and A6 8ADXV03.1	Confirmatory Class #:N001c/N002cRXX
5.	Check brakes for excessive drag. Adjust if	necessary.
	brake drag ok	
	excessive brake drag (adjust	ed)
6.	Inspect catalyst body, if so equipped, for disevidence of plug removal.	coloration, signs of damage, bulges, burn-out or
	catalyst ok	
	other (describe)	
7.	Record the following part numbers.	
	Catalyst	PROM
	TPS Sensor	PCV valve
	Throttle body	ECM (computer)
	O2 Sensor	EGR valve
8.	maintenance:	des in vehicle's computer system at beginning of EPA
	b. Readiness Tests	
	Catalyst Secondary Air	Evap System
	O2 Sensor Heater	EGR system
	c. At the time during the maintenance, is the	MIL on?
9.	a. Check cooling system, both radiator and r necessary.	eservoir (if applicable) for coolant and fill if
	Reservoir	
	level ok level low	coolant added (amount)
	ALL THE ABOVE ITEMS HAVE I	
MECHAN	MANUFACTURER REPRESENTATIVE	EPA REPRESENTATIVE

VW FOIA, EPA 06/20/2017 2017-FFP_001447

3 of 12	2008 Audi A4 and A6 Radiator	8ADXV03.13	Confirmatory C	lass #:N001c/N002cRXX
	1	evel ok	1	(20022001)
		evel low	_ coolant added	(amount)
	b. Check coolant condi	tion, replace if poor		
		coolant condition coolant condition coolant replaced	ok poor, (specify)	
	c. Perform the following Radiator cap p		ure applied:(need pre	ssure) bar
		no leakage		
		cap leaks		
		cap does not release	e pressure	
		cap replaced		
	Radiator pressur	e check; pressure ap	plied: _(need pressure)_	bar
		no leakage		
		hoses and clamps of	bk	
		radiator leaks		
		leakage repaired		
	d. freeze protection lev	el		
	TBD spec = $_{\perp}$	-## degrees at ##% 1	mixure_adjusted to	
10.	Check drive belts. Repl	ace if cracked, fraye	d, glazed or excessively v	vorn. Adjust if loose
	belt	(s) ok		
	belt	(s) adjusted or repla	aced, specify	
	ALL TH	IE ABOVE ITEMS HAVE B	BEEN PERFORMED	
MECHAN	NIC MANUFACTU		EPA REPRESENTATIVE	

VW FOIA, EPA 06/20/2017 2017-FFP_001448

	level ok	level low	Water added
/ /	Maintenance free battery (if equ	ipped with an indicator, record	observation).
	eck the power steering fluid and ac not applicable level ok	•	
Vis	sually inspect the vehicle for:		
	a. Signs of obvious tampering.		
	none found Describe	yes	
	b. Fuel system plug (s). Plug lo		
	all present and inta-	ct	
	plug (s) missing; [Describe	
Ch	eck all fuel system linkages for fre	e operation. (throttle linkages.)	
	Free operation		
	Sticking, binding, etc.; de	escribe	
	Repaired, describe		
	eck the condition of the hoses of trect routing of hoses. Check func		
	a. Air cleaner hoses.	dr oan didian	
	correctly routed, c	ınctional	
	not ok, specify	ed, describe	
		S HAVE BEEN PERFORMED	
HANIC	MANUFACTURER REPRESENT	FATIVE EPA REPRESENTATIVE	

VW FOIA, EPA 06/20/2017 2017-FFP_001449

	b.	Spark timing control hoses.
		correctly routed, ok condition
		not ok, specify
		repaired or replaced, describe
	c.	Crankcase emission control hoses.
		correctly routed, ok condition
		air moves through PCV system
		not ok, specify
		repaired or replaced, describe
	d.	EGR system hoses.
		correctly routed, ok condition
		rpm required for movement rpm
		not ok, specify
		repaired or replace, describe
	e.	Evaporative emission system hoses.
		correctly routed, ok condition, vent and purge functions OK
		no ok, specify
		repaired or replaced, describe
	f.	Air injection system hoses.
		not applicable
		correctly routed, ok condition
		not ok, specify
		repaired or replaced, describe
		ALL THE ABOVE ITEMS HAVE BEEN PERFORMED
MECHANIC		MANUFACTURER REPRESENTATIVE EPA REPRESENTATIVE

VW FOIA, EPA 06/20/2017 2017-FFP_001450

	008 Audi A4 and A6 g. Speed control system		Confirmatory Class #:N001c/N002cRXX
£		/ / non-O.E. system	/ / not applicable
	For O.E. system: correctly i	routed, ok condition	
	not ok, s	pecify	
	repaired of	or replaced, describe	
	For non-O.E. system	n:	
	/ / System disconn	ected at throttle	
1	n. List problems found	l with any other vacuum l	noses.
	no other	problems found	
6. Start	engine	Time	
	ne warm cles equipped with an e		be run until fan operates)
		YES / / NO / /	with an electric cooling fan
		ssion fluid level and add i	
	not applicable		level low
	level ok		fluid added
	ALL THE A	BOVE ITEMS HAVE BEEN PERF	FORMED
ECHANIC	MANHEACTURER	/ REPRESENTATIVE EPA RE	PRESENTATIVE

VW FOIA, EPA 06/20/2017 2017-FFP_001451

	al wiring for pro	per connections	and integrity		ss #:N001c/N002cRX olenoid, ignition and	
control, engine ter		es, sensors, etc.)				
	_ wiring ok					
	not ok, specify					
	repaired or repl	aced, describe _				
19. Exhaust Syste	em					
·		nluggad in aybay	ist system			
		plugged in exhau	ist system			
	Not applica	ible				
b. Che	eck exhaust syste	m for leaks with	engine runn	ing.		
	No leaks					
	System leal	ks; location				
	Leaks repa	ired; describe				
	I					
20. a. Remove al the plug(s)		ee emission label	to determin	e if plug is O.E.	Record the informa	tion fo
Specified O.E	E. make and num	nber				
Specified gap	·					
b. Check con						
Compression S	Spec. <u>please pr</u>			1 6250	,	
(Always u	se a fully charge	d battery to obtai	n engine spe	eed of 250 rpm o	r more)	
Cylinder No.	Brand	Part No.	Gap	Condition	Compression	
1 2						
3						
4						
5						
6						
	ALL THE A	ABOVE ITEMS HAVE	BEEN PERFORM	MED		
MECHANIC	MANUFACTURE	_/ R REPRESENTATIVE	EPA REPRI	ESENTATIVE		

VW FOIA, EPA 06/20/2017 2017-FFP_001452

MANUFACTURER REPRESENTATIVE EPA REPRESENTATIVE

MECHANIC

MECHAN	IC MANUFACTURER RE	EPRESENTATIVE EPA	/ REPRESENTATIVE	
	YesNoNo			
25. Ver	ify if O2 maintenance has bee	en performed (from ov	vner's records)	
	If the EGR light is on and (from the owner's records			previously by the owner
	Is the EGR maintenance li	ight on? Yes	_ No	
	Do only if the truck has or	ver mile	s or is over	_ months old.
24. <u>For</u>	<u>LDTs only</u> (#24 and #25)			
	oil and oi	il filter replaced		
b. 3	Replace oil and filter as recon #W## GF# oil; engine	•	turer:	
_	oil level ok	oil level	below ½ qt.	
23. a. C	heck oil level.			
	maintenance None NOTE: Manufacturer recom			
	j. fuel filler cap k. List below any other non-	— — — — — — — — — — — — — — — — — — —	e visual check and th	eir condition and
	h. PCV filter			
	g. PCV valve			
	f. distributor rotor			
	e. distributor cap			
	d. ignition wires			
	c. fuel filter			
9 of 12	2008 Audi A4 and A6 b. oil filter	8ADXV03.1374 	Confirmatory Cla	ss #:N001c/N002cRXX

VW FOIA, EPA 06/20/2017 2017-FFP_001454

	If yes, when? _		
If O2	2 maintenance has not bee	en performed, perform the following:	
	Additional mai	ntenance items to be performed:	
26.	Start engine	Time	
	Engine warm	Time	
27.	Preparation for parame	eter set.	
	engine	at normal operating temperature	
	accesso	ory equipment off	
PRO		NG CHECKS AND ADJUSTMENTS ACC LUCTIONS SPECIFIED ON THE EMISSION	
28.	Check idle ignition to	iming and adjust if necessary.	
	gear setting	_	
	as received	at	rpm
	spec.*	at	rpm
	set to*See V	at ECI label and/or shop manual.	rpm
29.		ecessary, the idle speed(s) settings.	
		plugs present / /yes / / no / / N/A ee VECI label and/or shop manual.	
	a. Curb idle speed gear setting	observed	rpm
	spec.*	rpm set to THE ABOVE ITEMS HAVE BEEN PERFORMED	rpm
МЕСН	IANIC MANUFACT	TURER REPRESENTATIVE EPA REPRESENTATIV	<u>E</u>

VW FOIA, EPA 06/20/2017 2017-FFP_001455

MECHANIC

*See VECI label and/or shop manual

	b. TPS output voltage. (Curb idle speed) observedvdc	
	Spec.	
0.	List any comments relevant to the inspection performed on this vehicle:	
1. _	Record Trouble Codes (after M-2)	
2.		
T	Time completed	
D	Date	
S	Signature of mechanic and observers:	
	MECHANIC	
	EPA REPRESENTATIVE	
	MANUFACTURER REPRESENTATIVE	

VW FOIA, EPA 06/20/2017 2017-FFP_001456

EPA REPRESENTATIVE

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MANUFACTURER REPRESENTATIVE

	_	
_		
	 	a contrar
	OVE ITEMS HAVE BEEN PEI	
CHANIC	EPRESENTATIVE EPA 1	

VW FOIA, EPA 06/20/2017 2017-FFP_001457

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Wed 8/25/2010 10:34:15 PM
Subject: Re: VW Group: Test Type Question

(embedded image) (embedded image)

Verify doesn't have a separate procedure name for it. Its still called a FTP, only difference is there are 2 hot stablilized bags instead of double weighting the bag 2. On my side I have it specified as 4 bags to denote it but you may not see that.

I also requested PM measurement but Verify erased it. Its on my hard copy but not in the system so I have to re-request it.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 08/25/2010 03:57 PM

Subject: VW Group: Test Type Question

Hello Jim,

The tests listed for the Touareg Hybrid (T.G.: BVWXT03.0HEV) in Verify are 1 FTP, 1 HWFE and 2 US06 (I'm guessing one 2-Bag and one 1-Bag w/PM). See highlighted info below.

The FTP is listed as type 21 which is a standard Federal fuel 2-day exhaust (w/can load).

Is this correct or will it be a UDDS? Is this just a limitation of the Verify System - maybe it hasn't been coded to indicate a UDDS test yet?

Bob Hart

Vehicle selected for Test VW526710023, Supplemental Information needed - Message

From: Verify Administrator

Subject: Vehicle selected for Test VW526710023, Supplemental Information needed

Date: Fri 8/13/2010 1:26 PM

Your recent submission has been selected by the EPA for Confirmatory Testing for the following vehicle: Manufacturer: VWX Vehicle ID: VW526710023 Vehicle Configuration: 0 Please submit your supplemental information as soon as possible so that the EPA can schedule a test date. Below are the specific tests that will be run: 3 - HWFE 61 - Tier 2 Cert Gasoline 21 - Federal fuel 2-day exhaust (w/can load) 61 - Tier 2 Cert Gasoline 90 - US06 61 - Tier 2 Cert Gasoline

Manufacturer Code: VWX Vehicle ID: VW526710023 Vehicle Configuration #: 0

Test Group Name: BVWXT03.0HEV

Transaction Identifier: _edc7f15d-c98b-40ac-9520-7f64fb8b3c88

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: Linc Wehrly/AA/USEPA/US@EPA;Roberts French/AA/USEPA/US@EPA;Mary Manners/AA/USEPA/US@EPA;David Good/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA[]; oberts French/AA/USEPA/US@EPA;Mary Manners/AA/USEPA/US@EPA;David Good/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA[]; ary Manners/AA/USEPA/US@EPA;David

Good/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA[]; avid Good/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA[]; im

Snyder/AA/USEPA/US@EPA[]

Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Johnson, Stuart"

[Stuart.Johnson@vw.com]; Giles, Michael" [michael.giles@vw.com]

From: "Kata, Leonard"

Sent: Wed 8/25/2010 10:54:35 PM

Subject: Volkswagen Meeting with EPA Regarding Early CO2 Credits

EARLY CREDIT CALC.pdf

Hello all:

As you may recall, Volkswagen met with you and other EPA staff members to discuss our interpretation of the early CO2 credits portion of the final GHG rule. We also raised a number of questions. At the end of the meeting we began to present a sample early credit determination, based on a preliminary version of an early credit calculation tool. However, it was difficult to follow without some prior study. We agreed to provide a written version.

Attached is a sample calculation that was prepared by hand to check against the tool that we are developing. As of now, the result of the hand calculations match the automated version. The attached version also explains the assumptions made in understanding the regulations and making the calculations. We would appreciate EPA review of this example to assure us that we are on the right track.

I will file a formal copy of the information through VERIFY, along with a marked-up copy of the slides presented at our meeting. The mark-up are the EPA comments. Please note that there are still some open issues. One in particular concerns the determination of CAFE-based credits as described for Pathway 3.

The current calculations are only for CO2 credits. We stated in the meeting that we are still evaluating early A/C credits and would come back to EPA on that topic.

Finally, there was one slide at the end of the presentation (Slide 31) that we did not have time to cover. It pertains to CH4 and N2O compliance procedures. We would like EPA concurrence with the compliance approaches presented. We also questioned the requirement of having to apply either the stand-alone CH4 and N2O compliance approach or the incorporation of CH4 and N2O in the CREE calculation to the entire fleet, and whether there is any flexibility on this point.

Best regards,		
Len		

Leonard W. Kata

Manager, Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: "Kata, Leonard" [Leonard.Kata@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Wed 8/25/2010 11:02:08 PM Subject: Re: Lambo Catalyst Bypass

I found the old and new writeups describing the Lamborghini proposal for the catalyst bypass system and read them. Given that 2 of the 3 catalysts are still active in the system even during bypass, the catalyst efficiency is limited during high load/rpm due to residence time and A/F ratio, and the benefits of preventing overtemperaturing of the catalyst, I approve the use of the proposed bypass system.

On page 9, the graphs shows that the bypass opens at 60% load at 3750 rpm. The following temperature map shows this as the very beginning of elevated catalyst temperatures. Please remind Lamborghini that the catalyst bypass is justified for temperature protection but I consider their lower cut point generous.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Kata, Leonard" < Leonard. Kata@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 08/23/2010 11:37 AM Subject: Lambo Catalyst Bypass

Hello Jim:

Thanks for setting up the meeting with Audi last week, As always, we come away from these meetings having learned a lot.

As we discussed last week, I have submitted a couple of documents regarding the Lamborghini proposal through VERIFY. The first was the initial request, and the second was in response to your question about the prior approval.

We are getting close for production timing, so an EPA response would be appreciated.

Best regards,

Len

Leonard W. Kata Manager, Emission Regulations and Certification Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204 Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Thur 8/26/2010 1:42:32 PM Release Request for Test Vehicle VW416 80218 cfg. 0
Hello Jim,	
Volkswager	n has accepted the test results for Test Vehicle VW416 80218 cfg. 0 (VW Tiguan).
Please relea	ase the vehicle for pick-up on Monday, August 26, 2010.
Best regard	ls,
Bob Hart	
Robert Har	t
Engineering	g and Environmental Office
3800 Hamli	n Group of America, Inc. In Road s, MI 48326
	8) 754-4224
Fax: (248) 7	754-4207

E-mail: robert.hart@vw.com

sebastian.berenz@vw.com Hello Mrs. Sohacki, I'm just wondering if everything is ok with the 2.0l surveillance testings at your lab. Please let me know if you need anything from our side or if there are any results on the cars. Thank you very much. Sincere regards. Sebastian Berenz Manager In-Use Emission Compliance **Environmental Engineering Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207 E-Mail: sebastian.berenz@vw.com http://www.volkswagen.com P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

Lynn Sohacki/AA/USEPA/US@EPA[]

"Berenz, Sebastian" Tue 8/31/2010 2:42:15 PM

Subject: test group 8ADXV02.0366

To:

From:

Sent:

Manners/AA/USEPA/US@EPA;David Good/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA[]; oberts French/AA/USEPA/US@EPA;Mary Manners/AA/USEPA/US@EPA;David Good/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA[]; ary Manners/AA/USEPA/US@EPA;David Good/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA[]; avid Good/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA[]; im Snyder/AA/USEPA/US@EPA[] Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Johnson, Stuart"
Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Johnson, Stuart" [Stuart.Johnson@vw.com]; Giles, Michael" [michael.giles@vw.com] From: "Kata, Leonard" Sent: Wed 9/1/2010 4:21:56 PM
Subject: RE: Volkswagen Meeting with EPA Regarding Early CO2 Credits
To all:
Just a reminder that we would appreciate your thoughts on the early credit exercise submitted to EPA.
The documents attached to the earlier e-mail have been downloaded in the VERIFY system, along with a marked-up copy of the slides from our July 1, 2010 meeting. The mark-ups reflect the EPA comments made at the meeting.
We appreciate your verification of the early credit calculation procedure and an interpretation regarding the open issue on Pathway 3 (CAFE –based standard using a CAFE calculation with total federal sales versus sales from states other than California and Section 177 states).
Please feel free to contact me with any questions.
Best regards,.
Len
Leonard W. Kata
Manager, Emission Regulations and Certification
Engineering and Environmental Office
Volkswagen Group of America, Inc.
1

Linc Wehrly/AA/USEPA/US@EPA;Roberts French/AA/USEPA/US@EPA;Mary

To:

VW FOIA, EPA 06/20/2017 2017-FFP_001466

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Kata, Leonard

Sent: Wednesday, August 25, 2010 6:55 PM

To: Wehrly.Linc@epamail.epa.gov; 'french.roberts@epa.gov'; 'manners.mary@epa.gov';

Good.David@epamail.epa.gov; 'Snyder.Jim@epamail.epa.gov' Cc: Kohnen, Christoph (VWGoA); Johnson, Stuart; Giles, Michael Subject: Volkswagen Meeting with EPA Regarding Early CO2 Credits

Hello all:

As you may recall, Volkswagen met with you and other EPA staff members to discuss our interpretation of the early CO2 credits portion of the final GHG rule. We also raised a number of questions. At the end of the meeting we began to present a sample early credit determination, based on a preliminary version of an early credit calculation tool. However, it was difficult to follow without some prior study. We agreed to provide a written version.

Attached is a sample calculation that was prepared by hand to check against the tool that we are developing. As of now, the result of the hand calculations match the automated version. The attached version also explains the assumptions made in understanding the regulations and making the calculations. We would appreciate EPA review of this example to assure us that we are on the right track.

I will file a formal copy of the information through VERIFY, along with a marked-up copy of the slides presented at our meeting. The mark-up are the EPA comments. Please note that there are still some open issues. One in particular concerns the determination of CAFE-based credits as described for Pathway 3.

The current calculations are only for CO2 credits. We stated in the meeting that we are still evaluating early A/C credits and would come back to EPA on that topic.

Finally, there was one slide at the end of the presentation (Slide 31) that we did not have time to cover. It pertains to CH4 and N2O compliance procedures. We would like EPA concurrence with the compliance approaches presented. We also questioned the requirement of having to apply either the stand-alone CH4 and N2O compliance approach or the incorporation of CH4 and N2O in the CREE calculation to the entire fleet, and whether there is any flexibility on this point.

Best regards,		
Len		

Leonard W. Kata

Manager, Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: CN=Vincent Mazaitis/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA[]; N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA[]

Cc: "Reisner, Axel, Dr. (EASZ/1)" [axel.reisner@volkswagen.de]

Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 9/2/2010 8:38:37 PM Subject: Vw test results pending

Vince, I won't be in Friday. If the results on today's test of the VW Jetta VW36100250 are released, please email them to Axel (email above) so he can determine whether to stay or head home.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov To: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;"Hart, Robert (VWoA)"

[Robert.Hart@vw.com]; Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: "Reisner, Axel, Dr. (EASZ/1)" [axel.reisner@volkswagen.de]; N=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Vincent Mazaitis/OU=AA/O=USEPA/C=US@EPA[];

N=Vincent Mazaitis/OU=AA/O=USEPA/C=US@EPA[]

Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 9/2/2010 8:45:42 PM Subject: Re: Vw test results pending

Looks like the data is already in Verify.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: Jim Snyder/AA/USEPA/US

To: Vincent Mazaitis/AA/USEPA/US@EPA, Stephen Healy/AA/USEPA/US@EPA

Cc: "Reisner, Axel, Dr. (EASZ/1)" <axel.reisner@volkswagen.de>

Date: 09/02/2010 04:38 PM Subject: Vw test results pending

Vince, I won't be in Friday. If the results on today's test of the VW Jetta VW36100250 are released, please email them to Axel (email above) so he can determine whether to stay or head home.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

To: axel.reisner@volkswagen.de[]

Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;"Hart, Robert (VWoA)" [Robert.Hart@vw.com]; Hart, Robert (VWoA)" [Robert.Hart@vw.com]; N=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Vincent Mazaitis/OU=AA/O=USEPA/C=US

Sent: Fri 9/3/2010 11:07:16 AM **Subject:** Re: Vw test results pending

VW36100250 9-2-10.pdf

Good morning Axel,

Please find enclosed the Laboratory test results for VW36100250. If you have any questions or concerns, please contact me.

Thanks Axel,

Best regards,

Vince Mazaitis

From: Jim Snyder/AA/USEPA/US

To: Jim Snyder/AA/USEPA/US@EPA, "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

Cc: "Reisner, Axel, Dr. (EASZ/1)" <axel.reisner@volkswagen.de>, Stephen Healy/AA/USEPA/US@EPA,

Vincent Mazaitis/AA/USEPA/US@EPA
Date: 09/02/2010 04:45 PM
Subject: Re: Vw test results pending

Looks like the data is already in Verify.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: Jim Snyder/AA/USEPA/US

To: Vincent Mazaitis/AA/USEPA/US@EPA, Stephen Healy/AA/USEPA/US@EPA

Cc: "Reisner, Axel, Dr. (EASZ/1)" <axel.reisner@volkswagen.de>

Date: 09/02/2010 04:38 PM Subject: Vw test results pending

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please email them to Axel (email above) so he can determine whether to stay or head home.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

VWX

NVFEL Laboratory Test Data

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2010-0225-008

Test Date: 9/2/2010

Vehicle ID: VW36100250
MFR Name VOLKSWAGEN

Key Start: 13:16:19

Fuel Container ID: F00023 Fuel Type: 61 Tier 2 Cert Test Fuel MFR Codes: 590 Config #: 00

Test Procedure: 89 us062bag (us06warmup_2bagus06)

Transmission: AUTO
Shift Schedule: A09980041

Calculation Method: Gasoline

Beginning Odometer: 003455.0 MI

Pretest Remarks:

Drive Schedule: us06warmup_2bagus06

Bag Data Phase 1	<u>HC-FID</u> (ppmC)	CO (ppm)	<u>NOx</u> (ppm)	<u>CO2</u> (%)	<u>CH4</u> (ppm)	NonMeth HC
Sample	6.218	340.639	0.168	0.826	3.387	(ppmC)
Ambient	2.360	0.000	0.011	0.042	1.898	
Net Concentration	4.010	340.639	0.157	0.787	1.611	2.168
Remark <u>Phase 2</u>	:					
Sample	8.161	498.346	0.208	1.128	4.495	
Ambient	2.392	0.000	0.009	0.043	1.899	
Net Concentration	5.980	498.346	0.199	1.088	2.763	2.821

Remarks:

Phase 3

Sample Ambient

Net Concentration

Test Information

THITED STATE

Remarks:

Phase 4

Sample Ambient

Net Concentration

Remarks:

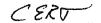
		-					
Phase 1 Phase 2	HC-FID (gpm) 0.080 0.052	<u>CO</u> (gpm) 13.764 8.787	<u>NOx</u> (gpm) 0.010 0.005	CO2 (gpm) 499.5 301.6	<u>CH4</u> (gpm) 0.037 0.028	NMHC / NMOG (gpm) 0.043 / 0.045 0.025 / 0.026	Vol MPG (mpg) 17.054 28.176
Composite	0.05842	9.88776	0.00632	345.356	0.02999		,
	***************************************				Dyno Settings	Dyno #:	D329 - FWD
Phase 1	17.04						
Phase 2	28.15						
						EPA Set Co C:	0.01389
Composito	24.62	*	±				
	······································	*			E	missions Bench:	Mexa 7200sle
EPAVUAEM100	902122739		Page 1 of 2			Print Tim	e 02-Sep-2010 13:40
_	Composite Phase 1 Phase 2 Composite	(gpm) Phase 1 0.080 Phase 2 0.052 Composite 0.05842 Gasoline MPG Phase 1 17.04 Phase 2 28.15	(gpm) (gpm) Phase 1 0.080 13.764 Phase 2 0.052 8.787 Composite 0.05842 9.88776 Gasoline MPG Phase 1 17.04 Phase 2 28.15 Composite 24.62	(gpm) (gpm) (gpm) (gpm) Phase 1 0.080 13.764 0.010 Phase 2 0.052 8.787 0.005 Composite 0.05842 9.88776 0.00632 Gasoline MPG Phase 1 17.04 Phase 2 28.15 Composite 24.62	(gpm) (gpm) (gpm) (gpm) (gpm) Phase 1 0.080 13.764 0.010 499.5 Phase 2 0.052 8.787 0.005 301.6 Composite 0.05842 9.88776 0.00632 345.356 Gasoline MPG Phase 1 17.04 Phase 2 28.15 Composite 24.62	(gpm) (gpm) <th< td=""><td> Composite 0.05842 9.88776 0.00632 345.356 0.02999 0.0288 / 0.0299 </td></th<>	Composite 0.05842 9.88776 0.00632 345.356 0.02999 0.0288 / 0.0299

			NVFEL	Laboratory To	est Data			cvs
		Final Laborat Test Number: 2	ory Test Resul 010-0225-008	ts- Refer to VER	IFY Reports for): VW36100250	
tesuits		HC-FID	CO	NOx	CO2	CH4	NMHC	Meth Respon
WHITED STATES		(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.143
(;	Phase 1	0.142	24.353	0.017	883.7	0.066	0.077	******
	Phase 2	0.325	54.736	0.033	1878.7	0.174	0.153	
							37.00	
Car Sign								
PROTECT	101							
						~		
est Conditions			Phase 1	Phase 2	Phase 3	Phase 4		
	Ba	rometer (inHg)	28.99	28.99				
	Avg Ce	Il Temp (degF)	74.58	74.64				
	De	w Point (degF)	51.52	51.53				
S	ecific Humidi	ity (grains/lbm)	58.54	58.56				
		Ox Corr Factor	0.9282	0.9283				
		Dilution Factor	15.567	11.372				
		nix (scf @68F)	2168.38	3331.35				
		(00. 600.)	£ 100.00	0001.00				
	0.00							
	CVS Flow Ra	ate Avg (scfm)	548.96	547.62				
	E.	an Placement: U	202 Only On	Large For Dev				
	Phas	se Time (secs)	130.01					
		stance (miles)		364.99	107.00			
,			1.769	6.229				
	bag Analys	is Time (secs)	110.2	322.1				
				•				
R Test Results	fo	r Procedure 90 U	S06					
<u>MFI</u>	R Number	<u>HC</u>	CO	<u>NO</u> x	<u>CO2</u>	NMOG	NonMeth HC	
	1E+07	0.0297	2.24	0.0067	296	0	0.0208	
	Odometer 3305 M	MPG 29.7			MFR Lab: \	/olkswagen AG	, Dept EASZ/1	
Λ		G is 20.61 % hig	her than EPA i	MPG ^r	Dyno: 2		•	
this	Nhow!	ABC	worker	/s X.	/ Fuel: 6	1 Tier 2 Cert G	asoline	
1 -00	I have validat	ed the data in ac	0	مداعرته	16730 B1	OC	DV 9-2	10
					. II 100	21.	-	
	Validated By:			62797	Date: /	12110		
	· · · · · · · · · ·	***************************************		·····	valo			

9/2/2010 1:40 PM

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WX

Config #: 00

Transmission: AUTO

CVS

NVFEL Laboratory Test Data

Final Laboratory Test Results- Refer to VERIFY Reports for Official Data

Test Number: 2010-0225-009 Vehicle ID: VW36100250 MFR Name VOLKSWAGEN

Test Date: 9/2/2010 Key Start: 12:03:18 MFR Codes: 590

Fuel Type: 61 Tier 2 Cert Test Fuel

Fuel Container ID: F00023

Test Procedure: 03 HWFET (hwfetprep_hwfet) Shift Schedule: A09980011 Calculation Method: Gasoline Beginning Odometer: 003434.0 MI

Pretest Remarks: Drive Schedule: hwfet_hwfet

Bag Data HC-FID CO NOx CO2 CH4 NonMeth HC Phase 1 (ppmC) (ppm) (ppm) (%) (ppm) (ppmC) Sample 3.416 6.733 0.059 1.073 2.376 **Ambient** 2.453 0.000 0.013 0.044 1.922 Net Concentration 1.159 6.733 0.047 1.032 0.608 0.464

Remarks:

Phase 2

Sample **Ambient**

Net Concentration

Test Information

TED STATES

Remarks:

Phase 3

Sample **Ambient**

Net Concentration

Remarks:

Phase 4

Sample **Ambient**

Net Concentration

Remarks:

Results **HC-FID** CO NOx CO2 CH4 NMHC / NMOG Vol MPG (gpm) (gpm) (gpm) (gpm) (gpm) (gpm) (mpg) Phase 1 0.008 0.089 0.001 0.005 0.003 / 0.003 215.4 41.253

(NMOG=1.04xNMHC)

Dyno Settings

Fuel Economy Gasoline MPG Phase 1 41.21

Inertia: 3250 EPA Set Co A: 5.22 EPA Set Co B: 0.379

Dyno #: D329 - FWD

EPA Set Co C: 0.01389

Emissions Bench: Mexa 7200sle

v100414 - d329 EPAVDAEm100902113910 Page 1 of 2 Print Time 02-Sep-2010 12:26

		Laboratory To				CVS
Final Laborat	ory Test Resu	lts- Refer to VER				
Test Number: 2 Results HC-FID): VW36100250	
Phase 1 0.078	<u>CO</u> (grams) 0.914	<u>NOx</u> (grams) 0.010	<u>CO2</u> (grams) 2203.2	<u>CH4</u> (grams) 0.047	<u>NMHC</u> (grams) 0.031	Meth Respons 1.143
AL PROTES						
Test Conditions Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF) Specific Humidity (grains/lbm) NOx Corr Factor CO2 Dilution Factor CFV Vmix (scf @68F)	Phase 1 28.99 74.81 51.24 57.93 0.9257 12.481 4118.72	Phase 2	Phase 3	Phase 4		
CVS Flow Rate Avg (scfm)	323.00					
Fan Placement: O		- Front				
Phase Time (secs)	765.10					
Distance (miles) Bag Analysis Time (secs)	10.230 105.2					
MFR Test Results for Procedure 3 HV	VFE					
MFR Number HC 1E+07 0.0112	<u>CO</u> 0.11	NOx 0	<u>CO2</u> 221	NMOG 0	NonMeth HC 0.0073	
Odometer MPG PM 3175 M 40.1 MPG is -2.70 % lov	0.018	ADC:		-	3, Dept EASZ/1	
IVII" © 15 -2.70 70 (UV	tor brott EFA N	m G	Dyno: 2 Fuel: 6	21 31 Tier 2 Cert C	easoline :	
I have validated the data in ac	cordance with	the requirements	of TP 730			
Validated By:	7		Date:	9-2-	10	

9/2/2010 12:26 PM

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Page 2 of 2

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Print Time 02-Sep-2010 12:26

VW FOIA, EPA

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: []
Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Tue 9/7/2010 8:50:43 PM

Subject: Data

Hi, Sebastian.

I am having the data scanned for vehicle N148-0092 but the data that I have for N148-0184 is not the final data. I will send that to you as soon as I get it.

Sorry for the confusion.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Wed 9/8/2010 12:59:11 PM

Subject: Test data for in-use vehicle N148-0092

N148RXX0092.pdf

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

				Laboratory ⁻				cvs
		T		aboratory Test	t Results			
rest Information			2010-0315-002 8/27/2010				N148RXX-0092	
	Key 9		08:52:30 / 09:45			MFR Name MFR Codes:		ADX
JUSTED STATES		el Container ID:		•,				ADA
SENOT	1.0		61 Tier 2 Cert Te	et Eugl		Config #: Transmission:		
			21 Fed Fuel 2-da		N I OAD)/ftn	Shift Schedule:		
(3)		culation Method:		y Exhaust (OA)		Beginning Odometer:		
AL PROTECT		retest Remarks:	Cabolinio			Drive Schedule:		
		rotost Romarks.				Soak Period:	#VALUE!	
						Obak i Gilou.	#VALUE:	
Bag Data		HC-FID	CO	NOx	CO2	CH4	NonMeth HC	
hase 1		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample		12.497	34.568	0.953	0.967		,,,	
Ambient		2.819	1.186	0.046	0.048	2.188		
let Concentration		9.882	33.468	0.910	0.923	1.289	8.491	
hase 2	Remarks:							
Sample		2.782	6.391	0.270	0.601	2.107		
Ambient		2.743	0.241	0.048	0.001	2.167		
let Concentration		0.162	6.161	0.224	0.556	0.037	0.122	
							3	
hase 3	Remarks:							
Sample		2.988	8.047	0.233	0.820	2.413		
Ambient		2.719	0.253	0.046	0.046	2.159		
let Concentration		0.436	7.810	0.190	0.777	0.386	0.019	
hase 4	Remarks:							
Sample								
Ambient								
et Concentration								
	Remarks:	This test has par	ticulate results.					
esults	-7.000-Villin-inne	HC-FID	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	CH4	NMHC	Vol MPG
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	Phase 1	0.128	0.875	0.035	379.1	0.019	0.110	23.344
	Phase 2	0.003	0.257	0.014	365.2	0.001	0.003	24.317
	Phase 3	0.006	0.204	0.007	318.1	0.006	0.000	27.920
	Weighted	0.02984	0.37076	0.01661	255 400	0.00605	0.00400	
uel Economy		Gasoline MPG	0.31010	0.01001	355.133	The second secon	0.02420	Dago Elve
AUT ECOHOLIS	Phase 1	23.32				Dyno Settings	•	D329 - FWD
	Phase 2	23.32 24.29					Inertia:	
	Phase 3	27.89					EPA Set Co R:	
		21.00					EPA Set Co B:	
	1 11000 0						EPA Set Co C:	0.01553
,	Weighted	24.97	<u>.</u>			- -	EPA Set Co C:	

06/20/2017

				Laboratory To				cvs
		T-111-0		_aboratory Test I	Results			
Results		Test Number: 2	Control of the Contro	Nov	000		N148RXX-0092	Math Dannana
		HC-FID	CO (grama)	NOx	<u>CO2</u>	<u>CH4</u>	NMHC	Meth Respons
JUITED STATES	Phase 1	(grams) 0.459	(grams) 3.142	(grams) 0.127	(grams) 1361.2	(grams)	(grams)	1.079
(g) (g)	Phase 2	0.439	0.991	0.054	1405.6	0.069 0.003	0.395 0.010	
ASERIO A ASERIO A	Phase 3	0.020	0.731	0.026	1142.4	0.003	0.010	
E Was	i ilase s	0.020	0.731	0.020	1142.4	0.021	0.001	
PROTECT!								****
est Conditions			Phase 1	Phase 2	Phase 3	Phase 4		
		rometer (inHg)	29.25	29.25	29.25			
	Avg Ce	II Temp (degF)	74.46	74.81	74.36			
		w Point (degF)	48.89	49.42	48.96			
Spo	ecific Humidi	ity (grains/lbm)	52.55	53.60	52.69			
		Ox Corr Factor	0.9046	0.9086	0.9051			
		Dilution Factor	13.792	22.258	16.313			
		nix (scf @68F)	2834.48	4853.97	2825.54			
	Total V	mix (scf@68F)	2847.30	4876.93	2838.85			
ı	CVS Flow R	ate Avg (scfm)	335.84	334.80	334.85			
	_	an Placement: O	no Eon IIn E					
		se Time (secs)	506.40	869.90	506.31			
		istance (miles)	3.591	3.849	3.591			
		is Time (secs)	953.9	148.4	91.1			
	3	(====,			• • • • • • • • • • • • • • • • • • • •			

I have validated the data in accordance with the requirements of TP 730 $\,$

Validated By: 21366	Date: 8/37//0

v100414 - d329 EPAVDAEm100827082427 Page 2 of 2 Print Time 27-Aug-2010 13:24

2017-FFP_001480

	· · · · · · · · · · · · · · · · · · ·	***************************************		NVFE	L Laboratory To	est Data		PA	ARTICULATE
		_			Laboratory Test I	Results			
Took Info		<u> </u>		2010-0315-00	2			N148RXX-0092	2
Test Info	rmation		Test Date:	8/27/2010 08:52:30 / 09:4	15		MFR Name		ADV
UNITED S	"ATES	Fuel C	Container ID:		1 0		MFR Codes: Config #:		ADX
Files .	<u> </u>	1 461 €		61 Tier 2 Cert	Test Fuel		Transmission:		
		Tes			day Exhaust (CAN	LOAD)(ftn	Shift Schedule:		
Tage of the second			tion Method:		day Extradot (or tiv		eginning Odometer:		
PHE PHE	DTEC.	Prete	st Remarks:			_	Drive Schedule:		
							Soak Period:		
									corrected for buoyancy
<u>Particulat</u>			Filter	<u>Tare</u>	<u>Gross</u>	<u>Net Wt</u>	Total Mass	<u>Total Mass</u>	<u>Filter</u>
<u></u>	Sampler		No.	(Pre Wt)	(Post Wt)	mg	mg	mg / mi	comment
Phase 1		A	38360	142.8949	142.9352	0.04034	28.737	8.003	
		В	38361	143.4579	143.5051	0.04715	30.294	8.437	
		С	38362	145.9378	145.9776	0.03987	25.834	7.195	
	Remarks:								
Phase 2		Α	38363	142.7412	142.7729	0.03173	00.000	F 000	
i iluse L		В	38364	142.3086	142.3333	0.03173	20.096 15.733	5.222 4.088	
		Č	38365	143.3684	143.3916	0.02472	14.916	4.066 3.876	
			33333		1 10.0010	0.02020	14.010	5.670	
	Remarks:								
Phase 3		۸	20266	445 7507	445 7770	0.00405	4 000		
Filase 3		A B	38366 38367	145.7527 146.1336	145.7776 146.1604	0.02485	15.983	4.451	
		C	38368	143.1315	143.1602	0.02686 0.02863	17.138 18.286	4.772 5.092	
		Ū	00000	140.1010	143.1002	0.02003	10.200	5.092	
	Remarks:								
Phase 4									
1 11436 4									
	Remarks:	<u>This</u>	test has part	iculate results.					
Average R	esults	Transcription of the second				<u>Net Wt</u>	Total Mass	Total Mass	
		_				mg	mg	mg / mi	
	Phas					0.04246	28.289	7.878	
	Phas					0.02656	16.915	4.395	
	Phas	e s				0.02678	17.135	4.771	
			,	All filter weights are	corrected for buoyancy.				
	Moightad All	Cilto	·						
	Weighted All Filter Stabili		·	Tare	Gross	Net Wt	Stability Charle	5.22159	D220 FWD
	g Net or 0.01		<u>×</u> No.	(Pre Wt)	(Post Wt)	mg met vyt	Stability Check PASS/FAIL	Dyno #: Inertia:	D329 - FWD
,, ,,,,,,		.01	1	143.93683	143.94074	0.00391	PASS	EPA Set Co A:	
	J	•	2	146.19074	146.19747	0.00673	PASS	EPA Set Co A:	
						_,,,,,,,,,,		EPA Set Co C:	
v100414 dar	00 EDAVIDAT	m100007	100407		D 4 - 6 2			Emissions Benc	
v100414 - d32	29EPAVDAE	1008270	102421		Page 1 of 2			Print Tin	ne 27-Aug-2010 13:24

06/20/2017

S. Testico	STATES		NVFE	Laboratory Te	st Data	**************************************	PARTICULAT
2.9	2)			Laboratory Test Ro	esults		
WEIGHNIG	OUAMBED.	Test Number: 2010-0315-002				A STATE OF THE PARTY OF THE PAR	: N148RXX-0092
WEIGHING	CHAMBER	Buoyancy	<u>Operator</u>	Chamber Temp	Dew Point	<u>Barometer</u>	Last Change in Status
D 44	Timestamp	Factor	(id)	(°F)	(°F)	("Hg)	Status @ timestamp
Pre-test	8/24/10 16:54	1.0011124	022298	71.9	49.2	29.05	NORM @ 08/21/10 05:01:57
Post-test	8/27/10 12:46	1.0011215	062459	70.9	48.8	29.23	NORM @ 08/26/10 12:35:51
<u>Γest Condi</u>	tions		Phase 1	Phase 2	Phase 3	Phase 4	
	B	arometer (inHg)	29.25	29.25	29.25		
	Avg C	ell Temp (degF)	74.46	74.81	74.36		
		ew Point (degF)	48.89	49.42	48.96		
	Specific Humid	dity (grains/lbm)	52.55	53.60	52.69		
		NOx Corr Factor	0.9046	0.9086	0.9051		
		Dilution Factor	13.79	22.26	16.31		
	CFV V	mix (scf @68F)	2834.48	4853.97	2825.54		
		e A (scf @68F)	3.997	7.700	4.414		
		e B (scf @68F)	4.432	7.662	4.449		
		e C (scf @68F)	4.394	7.594	4.445		
	Sample Volum	e D (scf @68F)		,,,,,	1.110		
Sam	ple Volume Aver	age (scf @68F)	4.274	7.652	4.436		
		mix (scf @68F)	2847.30	4876.93	2838.85		
		nase Time (sec)	506.40	869.90	506.31		
		Distance (miles)	3.591	3.849	3.591		
	PSU I	Probe A (degC)					
	PSU I	Probe B (degC)					
	PSU F	Probe C (degC)					
	PSU [Dil Air A (degC)	42.2	41.6	41.5		
	PSU [Dil Air B (degC)	43.9	43.4	43.3		
	PSU [Oil Air C (degC)	40.7	40.3	40.4		
	PSU	Filter A (degC)	45.3	46.9	44.9		
	PSU	Filter B (degC)	46.8	46.1	45.6		
		Filter C (degC)	44.9	44.8	44.8		
		Oil Flow A (Ipm)	29.9	30.0	29.9		
		Oil Flow B (lpm)	29.9	30.0	29.9		
		Oil Flow C (lpm)	30.0	29.9	29.9		
	PSU A	Proportionality					
		Proportionality					
	PSU C	Proportionality					
	have veltileted #	a data la			_		
	_		ice with the re	quirements of TP 73		- <i>I</i>	
٧	alidated By: 2	1566			Date: 8/27	1113	
100414 - d329	EPAVDAEm1008	327082427		Page 2 of 2			Print Time 27-Aug-2010 13:

2017-FFP_001482

NVFEL Laboratory Test Data

Final Laboratory Test Results

Test Number: 2010-0315-003

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Vehicle ID: N148RXX-0092 MFR Name AUDI

Test Date: 8/27/2010 Key Start: 10:17:56

MFR Codes: 640

ADX

Test Information

Fuel Container ID: F00023

Config #: 00

Transmission: AUTO

Shift Schedule: A09980011

Beginning Odometer: 029524.0 MI

Calculation Method: Gasoline

Pretest Remarks:

Drive Schedule: hwfet_hwfet

Bag Data	HC-FID	CO	<u>NOx</u>	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	3.289	9.827	0.237	1.097	2.276	
Ambient	2.515	0.157	0.022	0.042	2.051	
Net Concentration	0.980	9.683	0.217	1.058	0.393	0.555

Remarks:

Phase 2

Sample Ambient

Net Concentration

Remarks:

Phase 3

Sample Ambient

Net Concentration

Remarks:

Phase 4

Sample **Ambient** Net Concentration

Remarks: This test has particulate results.

Results	HC-FID	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	NMHC	Vol MPG
Phase 1	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	0.007	0.132	0.004	226.7	0.003	0.004	39.187

Fuel Economy Gasoline MPG **Dyno Settings** Dyno #: D329 - FWD Phase 1 39.15 Inertia: 3875 EPA Set Co A: 9.42 EPA Set Co B: 0.3104

EPA Set Co C: 0.01553

Emissions Bench: Mexa 7200dle

v100414 - d329 EPAVDAEm100827094151 Page 1 of 2

Print Time 27-Aug-2010 13:07

2017-FFP_001483

	NVFEL	Laboratory To	est Data			cvs
Took November 1		aboratory Test I	Results	V 1: 1 15	N.4.40DV04.0000	
Test Number: 2 Results HC-FID	CO CO	<u>NOx</u>	CO2		N148RXX-0092	Meth Respons
Phase 1 0.068	(grams) 1.354	(grams) 0.045	(grams) 2323.8	<u>CH4</u> (grams) 0.032	<u>NMHC</u> (grams) 0.038	1.079
Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF) Specific Humidity (grains/lbm) NOx Corr Factor CO2 Dilution Factor CFV Vmix (scf @68F) Total Vmix (scf@68F) CVS Flow Rate Avg (scfm)	Phase 1 29.24 74.42 49.26 53.30 0.9074 12.205 4220.78 4240.71 331.04	Phase 2	Phase 3	Phase 4		
Fan Placement: C Phase Time (secs) Distance (miles) Bag Analysis Time (secs)	One Fan - Up - F 765.00 10.252 75.2	ront				
I have validated the data in a	ccordance with	the requirements	of TP 730			

8/27/2010 1:07 PM

v100414 - d329____EPAVDAEm100827094151

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Page 2 of 2

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Print Time 27-Aug-2010 13:07

VW FOIA, EPA 06/20/2017 2017-FFP_001484

NVFEL Laboratory Test Data

Final Laboratory Test Results

PARTICULATE

ADX

Test Information THITED STATES

Test Number: 2010-0315-003 Test Date: 8/27/2010

Key Start: 10:17:56

Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel Test Procedure: 03 HWFET (hwfetprep hwfet)

Vehicle ID: N148RXX-0092 MFR Name AUDI

MFR Codes: 640

Config #: 00 Transmission: AUTO

Shift Schedule: A09980011

WAL PRO	(EETIE)	Calculation	on Method: G Remarks:	3 HWFET (hwf Gasoline	etprep_hwfet)	Ве	Shift Schedule: ginning Odometer: Drive Schedule:	029524.0 MI	
Particulate	Filter		<u>Filter</u>	Toro	Cross	NI=4 10/4		All filter weights are c	
Phase 1	<u>Priter</u> Sampler	A B C	No. 38351 38352 38353	<u>Tare</u> (Pre Wt) 145.7503 143.4387 145.2516	<u>Gross</u> (Post Wt) 145.7757 143.4735 145.2797	Net Wt mg 0.02544 0.03483 0.02814	<u>Total Mass</u> mg 16.096 22.071 18.266	Total Mass mg / mi 1.570 2.153 1.782	<u>Filter</u> comment
hase 2	Remarks:								
<u> 11436 Z</u>									
	Remarks:								
hase 3									
	Remarks:								
hase 4									
į	Remarks:	This to	est has partic	ulate results.					
verage Re	sults Phase	1				<u>Net Wt</u> mg 0.02947	Total Mass mg 18.811	Total Mass mg / mi 1.835	
			All	filter weights are co	orrected for buoyancy.				
	Filter Stabilit Net or 0.01 n 0.0	ng	No. 1	<u>Tare</u> (Pre Wt) 146.19085	<u>Gross</u> (Post Wt) 146.19658	Net Wt mg 0.00572	Stability Check PASS/FAIL PASS	Dyno #: Inertia: EPA Set Co A:	

8/27/2010 1:07 PM

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143.94235

Page 1 of 2

0.00450

PASS

143.93785

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2017-FFP_001485

EPA Set Co B: 0.3104 EPA Set Co C: 0.01553

Emissions Bencl Mexa 7200dle

Print Time 27-Aug-2010 13:07

VW FOIA, EPA

v100414 - d329

_EPAVDAEm100827094151

S. Control	**************************************			Laboratory Tes			PARTICULA
(2)				Laboratory Test Re	sults		
Con in	100 E.S.	Test Number: 2				CONTRACTOR OF THE PROPERTY OF	N148RXX-0092
VEIGHING	CHAMBER	<u>Buoyancy</u>	<u>Operator</u>	Chamber Temp	Dew Point	<u>Barometer</u>	Last Change in Status
	Timestamp	Factor	(id)	(°F)	(°F)	("Hg)	Status @ timestamp
re-test	8/24/10 15:45	1.0011139	000000	71.2	48.8	29.05	NORM @ 08/21/10 05:01:57
ost-test	8/27/10 11:59	1.0011222	062459	70.8	48.2	29.24	NORM @ 08/26/10 12:35:51
est Cond	itions		Phase 1	Phase 2	Phase 3	Phase 4	
	В	arometer (inHg)	29.24				
		ell Temp (degF)	74.42				
		ew Point (degF)	49.26				
		dity (grains/lbm)	53.30				
		NOx Corr Factor	0.9074	•			
		Dilution Factor	12.20				
	CFV V	/mix (scf @68F)	4220.78				
		ne A (scf @68F)	6.703				
	•	ne B (scf @68F)	6.693				
	•	ne C (scf @68F)	6.533				
	Sample Volum	e D (scf @68F)					
Sar	nple Volume Aver		6.643				
	Total V	/mix (scf @68F)	4240.71				
		nase Time (sec)	765.00				
		Distance (miles)	10.252				
	PSU	Probe A (degC)					
		Probe B (degC)					
		Probe C (degC)					
		Dil Air A (degC)	41.7				
		Dil Air B (degC)	43.4				
		Dil Air C (degC)	40.5	,			
		Filter A (degC)	45.6				
		Filter B (degC)	47.7				
		Filter C (degC)	45.8				
		Dil Flow A (lpm)	29.8				
		Dil Flow B (Ipm)	29.8				
		,,,,	20.0				
	PSU A PSU B	Dil Flow C (Ipm) A Proportionality B Proportionality C Proportionality	29.9				
1	have validated th	ne data in accorda	nce with the re	equirements of TP 7	80		
				•	21-	211-	
'	Validated By:	21366			Date: <u>8/ 2</u>	7/10	
00414 - d32	9 EPAVDAEm100	827094151		Page 2 of 2			Print Time 27-Aug-2010

06/20/2017

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: []
Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Wed 9/8/2010 3:50:06 PM

Subject: Test data for in-use vehicles N148-0184 and N148-0299

N148RXX-0299.pdf N148RXX-0184.pdf

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

		· · · · · · · · · · · · · · · · · · ·	NVFEL	Laboratory T	est Data	, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·	cvs
			Final L	aboratory Test				
			2010-0321-002				N148RXX-0299	
Test Information		Test Date:				MFR Name		
JUSTED STATES			09:33:34 / 09:41			MFR Codes:		ADX
(3' 2) 3	Fu	el Container ID:				Config #		
OBIANUS	_		61 Tier 2 Cert Te			Transmission		
18 71/2 S			21 Fed Fuel 2-da	ıy Exhaust (CAN		Shift Schedule:		
CVIAL STOCKES		ulation Method:	Gasoline			Beginning Odometer:		
T PROTE	Pr	retest Remarks:				Drive Schedule:		
						Soak Period:	23.6 hours	
Bag Data		HC-FID	CO	NOx	CO2	CH4	NonMeth HC	
Phase 1		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	2	10.694	27.812	1.511	0.972		(ppine)	
Ambien		2.309	1.106	0.023	0.972			
Net Concentration		8.553	26.786	1.490	0.043		7.363	
vet Concentration	1	0.555	20.780	1.490	0.832	1.102	7.303	
								•
	Domarka	All Ello A P O E	له د اس را در					
hase 2	Remarks.	All Filts A & C E	<u>kciuded</u>					
Sample	•	2.360	7.863	0.249	0.607	1.909		
Ambien		2.234	0.050	0.024	0.043			
Net Concentration		0.227	7.815	0.227	0.566		0.178	
	•	0,22,	7.0.0	0.221	0.000	0.010	0.170	
	Remarks:							
Phase 3								
Sample	•	2.584	8.550	0.209	0.820	2.219		
Ambien	t	2.266	0.014	0.018	0.042	1.947		
Net Concentration	1	0.457	8.537	0.192	0.780	0.392	0.034	
hase 4	Remarks:							
Sample	<u>,</u>							
Ambien								
Net Concentration								
	,							
	Remarks:	This test has par	ticulate results.					
esults		HC-FID	CO	<u>NOx</u>	<u>CO2</u>	CH4	NMHC	Vol MPG
		(gpm)	(gpm)	(gpm)	(gpm)		(gpm)	(mpg)
	Phase 1	0.109	0.689	0.058	376.7		0.094	23.515
	Phase 2	0.005	0.321	0.014	364.8		0.004	24.339
	Phase 3	0.006	0.219	0.007	314.5		0.000	28.236
	Weighted	0.02657	0.36906	0.02118	353.442		0.02143	
uel Economy		Gasoline MPG		-		Dyno Settings	•	D329 - FWD
	Phase 1	23.49					Inertia:	
	Phase 2	24.32					EPA Set Co A:	
	Phase 3	28.21					EPA Set Co B: EPA Set Co C:	
			<u>.</u>	<u>.</u>				
	Weighted	25.12	<u> </u>	 		E	missions Bench:	
100414 - d329EF	PAVDAEm1009	03090904		Page 1 of 5			Print Tim	e 07-Sep-2010 08

06/20/2017

				Laboratory To				cvs
				Laboratory Test I	Results			
Results	***************************************	Test Number: 2		NO	200		N148RXX-0299	
		HC-FID	CO (grama)	NOx (grama)	CO2	CH4	NMHC	Meth Response
JUSTED STARES	Phase 1	(grams) 0.391	(grams) 2.471	(grams) 0.206	(grams) 1350.7	(grams) 0.058	(grams) 0.336	1.079
() TO	Phase 2	0.018	1.235	0.250	1406.0	0.004	0.014	
	Phase 3	0.021	0.785	0.027	1127.2	0.021	0.002	
(3)		0.027	0.7.00	0.027	1121.2	0.021	0.002	
PROTECT PROTECT	***************************************				***************************************			
Test Conditions			Phase 1	Phase 2	Phase 3	Phase 4		
	Ва	rometer (inHg)	28.77	28.77	28.76			
	Avg Ce	ll Temp (degF)	74.75	74.73	74.72			
	De	w Point (degF)	49.77	49.59	49.49			
Sp	ecific Humidi	ty (grains/lbm)	55.22	54.86	54.67			
		Ox Corr Factor	0.9149	0.9135	0.9128			
		Dilution Factor	13.737	22.048	16.329			
		nix (scf @68F)	2788.64	4779.81	2780.94			
	Total Vi	mix (scf@68F)	2797.60	4794.96	2790.27			
	CVS Flow R	ate Avg (scfm)	330.34	329.49	329.56			
		an Placement: O						
		se Time (secs)	506.50	870.40	506.30			
		stance (miles) is Time (secs)	3.586 954.8	3.854 148.8	3.584 91.0			
	Day Analys	is tillie (secs)	934.0	140.0	91.0			,
Ç.								
			•					
					•			
								,

I have validated the data in accordance with the requirements of TP 730

Validated By:	21366	Date: 9/7/10
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v100414 - d329 EPAVDAEm100903090904 Page 2 of 5 Print Time 07-Sep-2010 08:33

2017-FFP_001489

CVS **NVFEL Laboratory Test Data Final Laboratory Test Results** Test Number: 2010-0321-003 Vehicle ID: N148RXX-0299 Test Date: 9/3/2010 Test Information MFR Name AUDI Key Start: 11:06:21 MFR Codes: 640 ADX Fuel Container ID: F00023 Config #: 00 Fuel Type: 61 Tier 2 Cert Test Fuel Transmission: AUTO Test Procedure: 03 HWFET (hwfetprep_hwfet) Shift Schedule: A09980011 Calculation Method: Gasoline Beginning Odometer: 044485.0 MI Pretest Remarks: Drive Schedule: hwfet hwfet **Bag Data** HC-FID CO <u>NOx</u> CO2 CH4 NonMeth HC Phase 1 (ppmC) (ppm) (ppm) (%) (ppm) (ppmC) Sample 2.782 9.594 0.267 1.107 2.021 **Ambient** 2.314 0.048 0.011 0.042 1.938 **Net Concentration** 0.659 9.550 0.257 1.069 0.243 0.397 Remarks: FiltsA & C Excluded Phase 2 Sample Ambient Net Concentration Remarks: Phase 3 Sample Ambient Net Concentration Remarks: Phase 4 Sample **Ambient Net Concentration** Remarks: This test has particulate results. Results HC-FID <u>co</u> <u>NOx</u> CO2 CH4 **NMHC** Vol MPG (gpm) (gpm) (gpm) (gpm) (gpm) (gpm) (mpg) Phase 1 0.004 0.128 0.005 225.2 0.002 0.003 39.436 Fuel Economy Gasoline MPG Dyno #: D329 - FWD **Dyno Settings** Phase 1 39.40 Inertia: 3875 EPA Set Co A: 8.88 EPA Set Co B: 0.4089 EPA Set Co C: 0.01407

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Print Time 07-Sep-2010 08:37

Emissions Bench: Mexa 7200dle

v100414 - d329

		Laboratory T				cvs
ToolNi	Final I	Laboratory Test	Results			
Test Number: 2 Results HC-FID		NO.	200		N148RXX-029	
Phase 1 0.045	<u>CO</u> (grams) 1.314	<u>NOx</u> (grams) 0.053	<u>CO2</u> (grams) 2311.5	<u>CH4</u> (grams) 0.019	NMHC (grams) 0.027	Meth Respons 1.079
Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4		
Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF) Specific Humidity (grains/lbm) NOx Corr Factor CO2 Dilution Factor CFV Vmix (scf @68F)	28.76 74.64 48.93 53.53 0.9083 12.091 4161.81	<u>1 11436 Z</u>	<u>1 11036 0</u>	<u> </u>		
Total Vmix (scf@68F) CVS Flow Rate Avg (scfm)	4174.55					
Fan Placement: O Phase Time (secs) Distance (miles) Bag Analysis Time (secs)	ne Fan - Up - F 765.00 10.262 76.2	Front				
					•	
I have validated the data in ac	cordance with	the requirements	of TP 730			
Validated By: 2 366		•	Date:	1/7/10		

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				Laboratory T		(***************************************	cvs
				aboratory Test	Results			
	THE RESERVE TO THE RE		2010-0317-002		***************************************		N148RXX-0184	
Test Information		Test Date:				MFR Name		
WHITED STATES	Key S	Start / Hot Soak:	13:53:24 / 09:48			MFR Codes:	640	ADX
() S	Fu	el Container ID:	F00023			Config #:	00	
医人人副		Fuel Type:	61 Tier 2 Cert Te	est Fuel		Transmission:	AUTO	
[] []		Test Procedure:	21 Fed Fuel 2-da	y Exhaust (CAN	I LOAD)(ftp	Shift Schedule:	A09980005	
The state of the s	Calc	culation Method:	Gasoline			Beginning Odometer:	039168.0 MI	
PROTE	Pi	retest Remarks:				Drive Schedule:		
						Soak Period:		
Bag Data		HC-FID	CO	NOx	CO2	<u>CH4</u>	NonMeth HC	
Phase 1		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	•	19.421	70.384	1.850	0.964	3.682	(PP0)	
Ambient		2.487	1.053	0.011	0.043	1.995		
Net Concentration		17.115	69.408	1.840	0.925	1.832	15,138	
			00,100	7.0.10	0.020	1.502	10.100	
	Damada	EW- A C O E . I						
Phase 2	rtemarks:	Filts A & C Exclu	<u>uea</u>					
Sample		2.546	10.002	0.216	0.605	1.912		
Ambient		2.421	0.063	0.008	0.003	1.912		•
Net Concentration		0.234	9.942	0.208	0.043	0.016	0.218	
		0.207	0.072	0.200	0.504	0.010	U.Z 10	
	Domarka							
Phase 3	Remarks:							
Sample		2.554	7.044	0.181	0.824	2 405		
Ambient		2.421	0.023			2.105		
Net Concentration				0.008	0.043	1.978	0.044	
vet Concentration		0.282	7.022	0.173	0.784	0.249	0.014	
					,		0446	
Phase 4	Remarks:							a^2
Sample								
Ambient							1	u
let Concentration							, U E	•
vet Concentiation							\mathcal{U}^{T}	
							O	
						· ~	, 0	
	Remarks:]	This test has part	iculate results.			O	`	÷
lesults		HC-FID	CO	NOx	CO2	CH4	NMHC	Vol MPG
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	Phase 1	0.221	1.807	0.072	378.2	0.027	0.195	23.289
	Phase 2	0.005	0.415	0.013	370.2	0.000	0.004	23.269
	Phase 3	0.004	0.183	0.007	320.6	0.004	0.004	
		5.001	5.100	0.007	520.0	0.004	0.000	27.706
	Weighted	0.04936	0.64015	0.02345	358.128	0.00689	0.04293	
uel Economy		Gasoline MPG				Dyno Settings		D329 - FWD
	Phase 1	23.27					Inertia:	
	Phase 2	23.96					EPA Set Co A:	
	Phase 3	27.68					EPA Set Co B:	
							EPA Set Co C:	
,	Weighted	24.73				□~	nissions Bench:	
	AVDAEm1008		· · · · · · · · · · · · · · · · · · ·	Page 1 of 2				
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				Laboratory T				cvs
		T (N) 0		Laboratory Test	Results			
sults		Test Number: 2		NO		- AMILIANA TRADITION OF THE PARTY OF THE PAR	N148RXX-0184	
Sults UNITED STATES ON THE STATES	Phase 1 Phase 2 Phase 3	HC-FID (grams) 0.792 0.019 0.013	CO (grams) 6.488 1.592 0.655	NOx (grams) 0.257 0.050 0.024	<u>CO2</u> (grams) 1358.3 1420.7 1149.4	<u>CH4</u> (grams) 0.098 0.001 0.013	NMHC (grams) 0.701 0.017 0.001	Meth Respon 1.079
	Avg Cel Dev ecific Humidi NC CO2 I CFV Vm Total Vr	rometer (inHg) I Temp (degF) w Point (degF) ty (grains/Ibm) Ox Corr Factor Dilution Factor nix (scf @68F) mix (scf@68F)	Phase 1 29.17 74.49 49.65 54.21 0.9110 13.769 2823.46 2835.29 334.53	Phase 2 29.17 74.22 49.62 54.15 0.9108 22.096 4839.85 4857.90	Phase 3 29.17 74.37 49.38 53.67 0.9089 16.238 2817.81 2828.73	Phase 4		
	Phas Dis	an Placement: O e Time (secs) stance (miles) is Time (secs)	506.40 3.591 954.3	870.20 3.840 148.5	506.50 3.585 92.1			

Page 2 of 2

I have validated the data in accordance with the requirements of TP 730

v100414 - d329 EPAVDAEm100831133119

2017-FFP_001493

Print Time 07-Sep-2010 08:30

cvs

NVFEL Laboratory Test Data

Final Laboratory Test Results

Test Number: 2010-0317-003 Vehicle ID: N148RXX-0184

Test Date: 8/31/2010

Key Start: 15:15:47 Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel Test Procedure: 03 HWFET (hwfetprep_hwfet)

Calculation Method: Gasoline

Pretest Remarks:

MFR Name AUDI

MFR Codes: 640

ADX

Config #: 00 Transmission: AUTO

Shift Schedule: A09980011 Beginning Odometer: 039168.0 MI

Drive Schedule: hwfet_hwfet

Bag Data	HC-FID	CO	<u>NOx</u>	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)
Sample	3.146	10.988	0.202	1.108	2.078	,
Ambient	2.448	0.059	0.005	0.042	1.970	
Net Concentration	0.901	10.934	0.198	1.069	0.271	0.608

Remarks: Filts A & C Exlcuded

Phase 2

Sample Ambient

Net Concentration

Test Information

WHITED STATES

Remarks:

Phase 3

Sample Ambient Net Concentration

Remarks:

Phase 4

Sample **Ambient** Net Concentration

Remarks: This test has particulate results.

<u>Results</u>	HC-F	ID CO	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	Vol MPG
Pha	(gpm use 1 0.00		(gpm) 0.004	(gpm) 228.4	(gpm) 0.002	(gpm) 0.004	(mpg) 38.887

Fuel Economy Gasoline MPG **Dyno Settings** Dyno #: D329 - FWD Phase 1 38.85 Inertia: 3875 EPA Set Co A: 7.73

EPA Set Co B: 0.3185 EPA Set Co C: 0.01541

Emissions Bench: Mexa 7200dle

Print Time 07-Sep-2010 08:32

v100414 - d329_ EPAVDAEm100831144118 Page 1 of 2

06/20/2017

		Laboratory T				cvs
Test Number: 2	Final L	aboratory Test	Results	V-111 (D		
Results HC-FID (grams) Phase 1 0.062	CO (grams) 1.525	<u>NOx</u> (grams) 0.041	<u>CO2</u> (grams) 2343.3	CH4 (grams) 0.022	N148RXX-018- NMHC (grams) 0.042	Meth Respon 1.079
est Conditions Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF) Specific Humidity (grains/lbm) NOx Corr Factor CO2 Dilution Factor CFV Vmix (scf @68F) Total Vmix (scf@68F)	Phase 1 29.15 74.62 49.16 53.26 0.9073 12.076 4211.25 4229.08	Phase 2	Phase 3	Phase 4		
CVS Flow Rate Avg (scfm)	330.25					
Fan Placement: O Phase Time (secs) Distance (miles) Bag Analysis Time (secs)	ne Fan - Up - F 765.10 10.260 75.2	ront				
		•				
I have validated the data in ac	cordance with t	he requirements	of TP 730			
Validated By: 21366			Date:	7/7/10		

9/7/2010 8:32 AM

v100414 - d329 ___EPAVDAEm100831144118

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Page 2 of 2

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Print Time 07-Sep-2010 08:32

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 9/13/2010 6:23:48 PM

Subject: Verify issue

Bob, I talked to a Verify person about what you found. They recommended that you contact VerifyHelp and tell them what you found.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 9/13/2010 6:45:07 PM

Subject: test schedule update

Bob, I just heard from Vince that the Jetta did not prep today so it won't get tested tomorrow.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 9/14/2010 12:20:00 PM Subject: RE: test schedule update

No, I just forgot that its only a hot test. Schedule came this morning and it is running today,

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: <Snyder.Jim@epamail.epa.gov>

Date: 09/13/2010 02:51 PM Subject: RE: test schedule update

Hello Jim,

Is it standard EPA practice to do a prep the day before a USO6? If so, do we have a new test date?

Bob

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Monday, September 13, 2010 2:45 PM

To: Hart, Robert (VWoA) Subject: test schedule update

Bob, I just heard from Vince that the Jetta did not prep today so it won't get tested tomorrow.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 9/14/2010 7:33:46 PM

Subject: Jetta testing

The lab is running behind today. They haven't run the Jetta yet. They may not get to it today after all.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Wed 9/15/2010 1:34:07 PM

Subject: jetta

They plan to retest it late morning/early afternoon.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: []
Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 9/16/2010 2:12:36 PM Subject: Meeting CA standards

Hi, Sebastian.

Following up on our discussion from last week, Class N 148 should meet all of the standards to which it was certified, including the CA standards. Because of this we will bring in 2 additional vehicles for testing. I'll notify you a week or so before the vehicles are brought in.

Thank you!

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

To: Sohacki.Lynn@epamail.epa.gov[Sohacki.Lynn@epamail.epa.gov]

From: "Berenz, Sebastian"

Sent: Thur 9/16/2010 2:21:21 PM **Subject:** RE: Meeting CA standards

Hello Lynn,

Thank you for that information.

Let me know when the first car will come in and we will come over.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road

Auburn Hills, MI 48326 Phone: (248) 754-4211 Cell: (248) 736-3487

FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, September 16, 2010 10:13 AM

To: Berenz, Sebastian

Subject: Meeting CA standards

Hi, Sebastian.

Following up on our discussion from last week, Class N 148 should meet all of the standards to which it was certified, including the CA standards. Because of this we will bring in 2 additional vehicles for testing. I'll notify you a week or so before the vehicles are brought in.

Thank you!

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

Cc: CN=Vincent Mazaitis/OU=AA/O=USEPA/C=US@EPA[]

Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 9/16/2010 5:38:21 PM

Subject: jetta departing

Bob, I signed off on veh.250, Ben said he would move it out for pickup. Vince will be in if there are any unexpected issues while picking it up tomorrow.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 9/16/2010 9:29:59 PM

Subject: 3rd us06 results jetta 2011 US06 3rd test.pdf

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

To: From: Sent:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Tue 9/21/2010 3:50:44 PM
Subject:	VW Group: MY 2011 VW Touareg Hybrid
Hello Jim,	
	a revised MY 2011 VW Group Common Sections today. You should now be able to find the y description.
The pages	that were updated are listed on Section 15VW Page 1.
Best regard	ds,
Bob Hart	
Robert Har	t
Engineerin	g and Environmental Office
Volkswage	n Group of America, Inc.
3800 Haml	in Road
Auburn Hil	ls, MI 48326
Phone: (24	8) 754-4224
Fax: (248)	754-4207

1

06/20/2017

E-mail: robert.hart@vw.com

VW FOIA, EPA

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 9/21/2010 4:02:29 PM

Subject: Re: VW Group: MY 2011 VW Touareg Hybrid

Thanks.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 09/21/2010 11:51 AM

Subject: VW Group: MY 2011 VW Touareg Hybrid

Hello Jim,

I uploaded a revised MY 2011 VW Group Common Sections today. You should now be able to find the Evap Family description.

The pages that were updated are listed on Section 15VW Page 1.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: []
Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Wed 9/22/2010 12:26:28 PM

Subject: Fw: EPA's Confirmatory Maintenance Form N001c-002c TELEPHONE QUESTIONNAIRE.doc

N001 maintenance before FTP.doc

Hi, Sebastian.

I will need the information for the maintenance very soon. Also, I need to know what the maintenance schedule says regarding oil changes. Do you have a copy of the page from the owner's manual that you can send me?

Thanks.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

---- Forwarded by Lynn Sohacki/AA/USEPA/US on 09/22/2010 08:24 AM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Berenz, Sebastian" < Sebastian. Berenz@vw.com>

Date: 08/25/2010 04:20 PM

Subject: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

Attached is the form that we use during maintenances for vehicles in a confirmatory class. There are a few items that I need you to provide. I've indicated those things in red. Please fill in the blanks and return the file to me. Please also let me know if you have any questions.

In case you are interested in seeing the telephone questionnaire, I've attached that as well.

Thanks,

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

OMB No. 2060-0086 Expires (02/08/2011)

TELEPHONE QUESTIONNAIRE FOR CONFIRMATORY CLASS:

VEHICLE CONTROL NUMBER	DATE
ADMINISTERED BY	
OWNER'S NAME	
STREET ADDRESS	
CITY STATE (CALL NUMBER BELOW THAT IS MARKED	ZIP
TELEPHONE (Home) //	(Business) //
BEST TIME TO CALL	
"WE ARE AUTHORIZED BY FEDERAL LAW TO ARE NOT REQUIRED TO RESPOND, YOUR CO RESULTS OF THIS INVESTIGATION VALID."	O COLLECT THIS INFORMATION. WHILE YOU OPERATION IS NEEDED TO MAKE THE
DATE OF CONTACT TIME	E OF CONTACT
INDIVIDUAL CONTACTED	
TO BE COMPLETED DAT	E AND TIME OF COMPLETION
You have been selected from a list of vehicle owners living i vehicle emissions being conducted by the U.S. Environmenta	
EPA is authorized by law to conduct this study and to offer in	· · · · · · · · · · · · · · · · · · ·

The accuracy of the information that you provide is important. The information that you provide will be used by EPA along with emission results for your car to determine whether the automobile manufacturer has complied with clean air standards established by Congress. The test results from your car will not be used by EPA to take action against you. Your cooperation will help EPA's efforts to control air pollution due to motor vehicle emissions.

Public reporting burden for this collection of information is estimated to vary from $\underline{1}$ to $\underline{60}$ minutes per response, with an average of $\underline{30}$ minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Director, Regulatory Information Division, 2136, U.S. Environmental Protection Agency,401 M St., S.W. Washington, DC. 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

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These are the conditions of the program:

We ask that you bring your vehicle into our testing facility where you will receive either a cash incentive for each day we keep your vehicle or a late model loaner car which will have a full tank of gas and unlimited mileage. This vehicle is yours to use without charge for the duration of the testing, which takes approximately three to four weeks. During this time, we will be performing a series of tests on your vehicle to measure vehicle emissions.

-at the time the vehicle is delivered to us for testing, you will be required to sign a form stating that the answers to the questions you will be asked are true and accurate to the best of your personal knowledge and belief.

We will provide you the following <u>incentives</u> for participating in our program:

-If your vehicle is accepted into the program, a full tank of gas and a cash incentive will be awarded. You will receive \$50 per day for each day your vehicle is at NVFEL, and the use of a fully-insured loan car; or \$75 per day for every day your vehicle is at NVFEL in lieu of a loan car. However, if your vehicle is rejected after you bring it to the lab, but before you leave, you will receive a \$20 payment.

The compensation will be based upon whole days, beginning with the day your car arrives. It will end one day after you are notified your vehicle is ready for return.

The maintenance performed on your vehicle will depend on program requirements. You will be given a list of any parts that are replaced.

Are you willing to participate? YES/ /	NO/ /
If you are not, may we ask why not?	

IF RESPONSE IS POSITIVE:

For the purpose of this study, I am going to ask you some questions about your vehicle's maintenance and usage history. You should answer these questions to the best of your knowledge and indicate when you are not sure of something.

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FOR "MPF PERSONNEL" ONLY

SENTENCES IN CAPPITAL LETTERS ARE INSTRUCTIONS TO THE CLERK AND ARE NOT INTENDED TO BE READ TO THE OWNER.

1. a. What are the model year, transmission type, vehicle identification number and engine family of your vehicle? The engine family can be found on a Vehicle Emission Control Information decal located <u>under the engine hood</u>.

The engine family should start with the letters <u>8</u> <u>A</u> <u>D</u> .
/ / Owner is unable to locate.
/ Owner located. ENGINE FAMILY
/ Engine family located when vehicle arrived at the Lab.
ENGINE FAMILY
ELIMINATE IF ENGINE FAMILY IS NOT <u>8ADXV03.1374</u>
b. MODEL VEHICLE ID NO
MODEL YEAR
TRANSMISSION: AUTOMATIC / / AIR CONDITIONED: YES/ / NO/ / MANUAL / / ODOMETER MILEAGE:
ELIMINATE IF MILEAGE IS UNKNOWN OR OVER 75,000 MILES. VEHICLES WITH MILEAGE OVER 50,001 SHOULD BE ASSIGNED TO CLASS N002C
c. Has the odometer ever not functioned properly?
YES/ / NO/ /
If yes, approximately how long (months/miles) was it inoperable?
CONSULT EPA FOR ELIGIBILITY IF THE RESPONSE IS "YES"
2. a. When and where did you obtain your vehicle? When Where
b. Was the vehicle utilized as a demonstrator prior to you purchase? YES/ / NO/ / DO NOT KNOW / /

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N001c/N002c 2008 VW/Audi EF#8ADXV03.1374 Control No.N001c/N002cRXXC IF THE ANSWER IS YES, ELIMINATE VEHICLE. CONSULT EPA IF DON'T KNOW c. What was the mileage at the time of purchase or lease. CONSULT EPA IF MILEAGE IS OVER 400. d. Are you the original purchaser or lessee of the vehicle? YES/ / NO/ / IF OBTAINED NEW, GO TO NEXT NUMBERED QUESTION. IF OBTAINED USED FROM OWNER'S EMPLOYER OR IMMEDIATE FAMILY MEMBER, GO TO (e); OTHERWISE ELIMINATE. e. Have you been the driver responsible for fueling, repairs and maintenance since the vehicle was new? YES/ / NO/ / IF NO, ELIMINATE. 3. Was the vehicle tested in a previous EPA or VW/AUDI emission program? (REGULARLY REQUIRED STATE RUN EMISSIONS CHECKS ARE NOT INCLUDED) YES/ / NO/ / CONSULT EPA FOR ELIGIBILITY IF YES. YES NO 4. Has your vehicle ever been used as a taxi? 5. Has your vehicle ever been used as a commercial delivery vehicle? 6. Has your vehicle ever been used to race in competitive speed events? 7. Have you ever used your vehicle in severe dust conditions? 8. Have you ever used your vehicle to plow snow? 9. Has the fuel pipe restrictor been modified or removed from your vehicle? ELIMINATE IF ANY POSITIVE RESPONSE TO QUESTIONS 4 THROUGH 9. (FOR TRUCKS ELIMINATE IF ANY POSITIVE RESPONSE TO 6 THRU 9)

10. Has the vehicle been equipped to permit trailer towing?

YES/ / NO/ /

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If yes; how and by whom?	
11. Has the vehicle been used to pull trailers?	
YES/ / NO/ /	
ELIMINATE IF RESPONSE IS "YE	S"
2. a. Is your vehicle equipped with air condit	ioning?
YES/ / NO/ / IF NO,	GO TO 13.
b. Was the air conditioning unit on your v	ehicle:
1) Factory installed? / /	
2) Dealership installed? //	
3) Nondealership installed? / /	
4) Do not know? //	
CONSULT EPA IF RESPONSE IS 2	(), 3), OR 4).
13. Have any of the following special devices l standard parts made by VW/AUDI?	been installed on your vehicle other than
a. exhaust headers	
b. camshaft	
c. ignition equipment	
d. carburetor or fuel injection components	
e. modifications to computerized engine control	
f. other (describe)	
g. THIS ITEM IS FOR TRUCKS ONLY Cap. toolbox, bedliner or other structure or do (Describe including the device weight)	evice mounted in the truck bed.

REMIND THE OWNER TO REMOVE LOOSE ITEMS FROM ALL COMPARTMENTS IN THE

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2008 VW/Audi EF#8ADXV03.1374 Control No.N001c/N002cRXXC

	Control No.N001c/N002cRXXC	
TRUCK BED REFORE BRINGING IT IN		

TRUCK BED BEFORE BRINGING IT IN. CONSULT EPA IF THERE IS A POSITIVE RESPONSE FOR ANY OF THE ABOVE ITEMS.
14. a. How many times per year do you drive on unpaved roads?
b. What percent of your mileage do you estimate you drive on unpaved roads?
ELIMINATE IF OVER 5%. (DELETE THIS QUESTION FOR TRUCK CLASSES)
15. Have you ever used any fuel other than that recommended by the manufacturer in your vehicle? (ex. leaded, E85)
YES / / NO / /
If Yes, what have you used?
How often have you used it?
When was the last time you used it?
IF YES, CONSULT EPA FOR ELIGIBILITY.
16. Have there been any problems with the catalytic converter? YES/ / NO/ / DON'T KNOW / /
If yes, describe
CONSULT EPA IF YES OR DON'T KNOW.
17. Have any settings been misadjusted or have the emission control system components been altered, modified or disconnected?
YES/ / NO/ /
If yes, explain what, when, and where.
WHAT
WHEN
WHERE

IF YES, CONSULT EPA FOR ELIGIBILITY.

Page 6 of 19

18. a.	Has your	vehicle e	ever ov	erheated?

- 1) Never
- 2) One Time
- 3) More than One Time

ELIMINATE IF VEHICLE HAS OVERHEATED MORE THAN ONCE. IF VEHICLE HAS OVERHEATED ONCE, OBTAIN RESPONSES TO b,c AND d, THEN CONSULT EPA.

b. How did you know the vehicle overheated?

- 1) Temperature Gauge or Light
- 2) Steam From Under the Hood
- _____

c. How far was the vehicle driven in an overheated condition?

- 1) Less than a mile
- 2) 1-3 miles
- 3) Greater than 3 miles

CONSULT EPA IF 1 OR 2; ELIMINATE IF 3.

d. When and where did vehicle overheat and what did you do?

19. a. Has your vehicle ever been involved in an accident?

YES/ / NO/ /

IF YES COMPLETE QUESTIONS (b), (c), (d), and (e).

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1) Engine	
2) Cooling System	
3) Carburetor or Fuel Injection System	
4) Exhaust System	
5) Fuel Tank	
S) Ignition System	······
7) Emission Control System	
8) Other (Specify)	
RE WAS DEFINITE DAMAGE TO AN	TY OF THESE COMPONENTS OR IF THE
RE WAS DEFINITE DAMAGE TO AN	
RE WAS DEFINITE DAMAGE TO AN URE WHETHER THE ABOVE COMP	Y OF THESE COMPONENTS OR IF THE
RE WAS DEFINITE DAMAGE TO AN URE WHETHER THE ABOVE COMP d. Has the damage been repaired?	Y OF THESE COMPONENTS OR IF THE ONENTS WERE DAMAGED, CONSULT
RE WAS DEFINITE DAMAGE TO AN URE WHETHER THE ABOVE COMPO d. Has the damage been repaired? YES// NO//	IY OF THESE COMPONENTS OR IF THE ONENTS WERE DAMAGED, CONSULT
RE WAS DEFINITE DAMAGE TO AN URE WHETHER THE ABOVE COMPO d. Has the damage been repaired? YES/ / NO/ / e. If yes; what, when, by whom and at What	IY OF THESE COMPONENTS OR IF THE ONENTS WERE DAMAGED, CONSULT

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YES/ / NO/ / IF YES, GO TO b and c.

VW FOIA, EPA 06/20/2017 2017-FFP_001515

b. Describe the circumstances of each occurrence:				
c. How many mi more than one instar		ven with the light on b	efore repairs were made? (If	
ELIMINATE IF D	RIVEN MORE THAN 1	1,000 MILES IN ANY	ONE INSTANCE.	
d. What was done	e to repair the vehicle a	fter the light came on	?	
(IF MORE				
IF REPAIRS			ULT EPA FOR ELIGIBILITY.	
21. a. When were the	e oil and oil filter <u>first</u> c	changed after obtainin	g the vehicle?	
Date _	N	fileage		
CONTACT EPA	IF MORE THAN <u>10,50</u> 0	0 MILES OR <u>13 MON</u>	<u>THS</u>	
b. When were the	e oil and oil filter chanş	ged the <u>second</u> time af	ter obtaining the vehicle?	
Date _	1	Mileage		
CONTACT EI FIRST TIME.	PA IF THE INTERVAL	IS MORE THEN 11,5	000 MILES AFTER THE	
	AS RECORDS SHOW BTAIN THE FOLLOV		ILEAGE OF OIL AND FILTER N:	
How many oil	l and oil filter changes l	have you had?		
(IF FILTER CHANC	GE WAS PERFORMED, IN	NDICATE BY CHECK MA	ARK IN PROVIDED SPACE).	
DATE	OIL CHANGE / /	DATE	OIL CHANGE / /	
MILEAGE	OIL FILTER / /	MILEAGE	OIL FILTER / /	

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changes?

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PERFORMED BY PERFORMED BY OIL CHANGE / / DATE OIL FILTER / / MILE PERFORMED BY PERFORMED BY PERFORMED BY OIL CHANGE / / DATE OIL CHANGE / / MILE MILEAGE OIL FILTER / / MILE	
PERFORMED BY OIL CHANGE / / DATE OIL FILTER / / MILLE PERFORMED BY	TEOIL CHANGE / /
DATEOIL CHANGE / / DAT MILEAGEOIL FILTER / / MILE PERFORMED BYOIL CHANGE / / DAT MILEAGEOIL FILTER / / MILE PERFORMED BYPERF DATEOIL CHANGE / / DAT MILEAGEOIL CHANGE / / DAT MILEAGEOIL CHANGE / / DAT MILEAGEOIL FILTER / / MILE PERFORMED BYPERF d. IF OWNER DOES NOT HAVE SERVICE REC MILEAGE OF OIL AND FILTER CHANGES, BU AND/OR MILEAGE INTERVALS, COMPLETE TO 1) At what interval is oil changed: time 2) At what interval is filter changed; time 3) Is oil / oil-filter changed in response to ser	LEAGEOIL FILTER / /
MILEAGEOIL FILTER / / MILE PERFORMED BYOIL CHANGE / / DAT MILEAGEOIL FILTER / / MILE PERFORMED BYOIL FILTER / / MILE DATEOIL CHANGE / / DAT MILEAGEOIL CHANGE / / DAT MILEAGEOIL FILTER / / MILE PERFORMED BYPERFORMED BY	RFORMED BY
PERFORMED BY OIL CHANGE / / DAT MILEAGE OIL FILTER / / MILE PERFORMED BY PERF DATE OIL CHANGE / / DAT MILEAGE OIL CHANGE / / DAT MILEAGE OIL FILTER / / MILE PERFORMED BY PERF d. IF OWNER DOES NOT HAVE SERVICE REC MILEAGE OF OIL AND FILTER CHANGES, BU AND/OR MILEAGE INTERVALS, COMPLETE 7 1) At what interval is oil changed: time 2) At what interval is filter changed; time 3) Is oil / oil-filter changed in response to ser	TE OIL CHANGE / /
DATEOIL CHANGE / / DATE MILEAGEOIL FILTER / / MILE PERFORMED BYPERE DATEOIL CHANGE / / DATE MILEAGEOIL FILTER / / MILE PERFORMED BYPERE d. IF OWNER DOES NOT HAVE SERVICE RECE MILEAGE OF OIL AND FILTER CHANGES, BUAND/OR MILEAGE INTERVALS, COMPLETE TO A the what interval is oil changed: time 1) At what interval is filter changed; time 2) At what interval is filter changed; time 3) Is oil / oil-filter changed in response to ser	LEAGEOIL FILTER / /
MILEAGEOIL FILTER / / MILE PERFORMED BY PERF DATEOIL CHANGE / / DATE MILEAGEOIL FILTER / / MILE PERFORMED BY PERF d. IF OWNER DOES NOT HAVE SERVICE RECOMILEAGE OF OIL AND FILTER CHANGES, BUT AND/OR MILEAGE INTERVALS, COMPLETE TO At what interval is oil changed: time 1) At what interval is filter changed; time 2) At what interval is filter changed; time 3) Is oil / oil-filter changed in response to ser	RFORMED BY
PERFORMED BY PERFORMED BY OIL CHANGE / / DATE OIL CHANGE / / DATE OIL FILTER / / MILE PERFORMED BY	TE OIL CHANGE / /
DATEOIL CHANGE / / DATE MILEAGEOIL FILTER / / MILE PERFORMED BYPERFORMED BYP	LEAGEOIL FILTER / /
MILEAGE OIL FILTER / / MILE PERFORMED BY PERF d. IF OWNER DOES NOT HAVE SERVICE REC MILEAGE OF OIL AND FILTER CHANGES, BU AND/OR MILEAGE INTERVALS, COMPLETE 7 1) At what interval is oil changed: time 2) At what interval is filter changed; time 3) Is oil / oil-filter changed in response to ser	RFORMED BY
DERFORMED BY PERFORMED BY	TE OIL CHANGE / /
d. IF OWNER DOES NOT HAVE SERVICE REC MILEAGE OF OIL AND FILTER CHANGES, BU AND/OR MILEAGE INTERVALS, COMPLETE To 1) At what interval is oil changed: time	LEAGEOIL FILTER / /
MILEAGE OF OIL AND FILTER CHANGES, BUAND/OR MILEAGE INTERVALS, COMPLETE 1) At what interval is oil changed: time 2) At what interval is filter changed; time 3) Is oil / oil-filter changed in response to ser	RFORMED BY
4) Who performs this work?	BUT CHANGES ARE BASED ON TIME E THE FOLLOWING: milesmiles ervice-reminder lamp?
e. What is the longest period by months and mileage changes? (SEE c.AND d. ABOVE TO VERIFY AND/	age your vehicle has gone between oil
MONTHS MILE CONTACT EPA IF EITHER IS MORE THAN	LES
CONTACT EPA IF EITHER IS MORE THAN	AN <u>11,500 MILES OR 14 MONTHS.</u>

(SEE c AND d ABOVE TO VERIFY AND/OR CALCULATE THIS ANSWER.)

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MONTHS	MILES
CONTACT EPA IF EITHER M	MORE THAN <u>11,500 MILES OF 14 MONTHS</u>
g. What was the approximate date of	of your last oil and oil filter change?
OIL CHANGE: DAT	ΓΕ MILEAGE
PERFORMED BY	
<u>OIL FILTER</u> CHANGE:	DATE MILEAGE
PERFORMED BY	
22. a. IF OWNER ALSO HAS RECO	ORDS SHOWING DATES AND MILEAGE OF TUNE-UPS, RMATION.
	ed a routine tune-up maintenance such as: ignition (or spark) nt and spark plug replacement? If possible, please state what
DATE / / IGNITION T	TIMING / / FUEL SYSTEM* ADJUSTMENT
MILEAGE	/ / SPARK PLUG REPLACEMENT
PERFORMED BY	
DATE/ / IGNITION T	IMING / / FUEL SYSTEM* ADJUSTMENT
MILEAGE	/ / SPARK PLUG REPLACEMENT
PERFORMED BY *Carburetor or Fuel Injection System CONTACT EPA IF SPARK PLUG C MILES.	CHANGE INTERVAL WAS EVER GREATER THAN 40,600
	CORDS OF TUNE-UPS, BUT TUNE-UPS ARE LEAGE INTERVALS, COMPLETE THE FOLLOWING:
1) At what interval is tune-up maintenance Months Mi	
2) What is the longest interval between sp Months Mi	
3) Who performs this work?	

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CONTACT EPA IF SPARK PLUG CHANGE INTERVAL WAS EVER GREATER THAN 40,600 MILES.

Description		
Date	Mileage	
Performed by _		
Description		
Date	Mileage	
Performed by _		
Description		
Date	Mileage	
Performed b	у	
Date	Mileage y	
·	dollars	don't know
WHAT		
WHEN		
WHEDE		

23. a. Ha	is any unsch	duled maintenar	ice (i.e., maintena	nce to correct a	problem) been
perfo	ormed on yo	ur vehicle in the	following areas?		

	<u>YES</u>	<u>NO</u>
Engine		
Fuel injection		
Transmission, drive shaft, axle		
Exhaust system		
Ignition system/Electrical system		
Cooling system		
Fuel tank		
Emission control system		
Oxygen Sensor		
Computerized engine system		
Other		

b. If the answer to any of the above items is yes, please describe what, why, when, and where.

VHAT	
VHY	
VHEN	
VHERE	
VHAT	-
VHY	
VHEN	
VHERE	
VHAT	_
VHY	

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EF#8ADXV03.1374 Control No.N001c/N002cRXXC_____

WHEN			
WHERE			
CONSULT EPA FOR ELIGIBILITY IF QUESTI			
24. a. Have you had any performance or drival (Including problems described in question 23.)	oility prob	lems with your	vehicle?
YES / / NO / /			
IF NO, GO TO NEXT NUMBERED QUESTION.			
If yes, describe:			
b. Would the problems you described fall into a	•	0 0	
1) Hard Starting	<u>Never</u>	Occasionally	Frequently
2) Poor Cold Performance			
3) Poor Acceleration			
4) Hesitation			
5) Stalling			
6) Dieseling (after run)			
7) Back firing			
8) Stumbling		_	
9) Engine Knock		_	
10) Rough Idle			
11) Engine Misfiring	-		
12) Other			
Describe other problems?			
c. What was done to eliminate performance pro	oblems(s)?	,	
WILLAT			
WHAT			
WHEN			
WHERE			
WHAT			

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WHEN
WHERE
d. When did the problems you mentioned above occur?
1) When you first obtained the vehicle?
2) With normal use, but prior to any maintenance performed on your vehicle?
3) After maintenance by
e. How long did each problem exist?
f. Do you still experience performance problems?
YES / / NO / /
Describe the problem
g. Would you say the general performance of your vehicle is:/ / 1) Better than when you obtained it?
/ / 2) Worse than when you obtained it?
/ / 3) About the same as when you obtained it?
h. What percent of your driving is done:
In the city (stop and go driving)?%
On the Highway?%
CONSULT EPA FOR ELIGIBILITY IF QUESTION (c) IS ANSWERED
25. Have you ever operated your car so as to cause it to idle for extended periods of time (i.e., for more than 15 minutes)?
NO / YES / / APPROX. NO OF TIMES
IF NO, GO TO NEXT NUMBERED QUESTION.

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	Describe the circum	stances for each	n case:		.0,10020101110	
	IF YES, CONSUI	LT EPA FOR I	ELIGIBILITY.			
26. H	Have you ever used s	synthetic oil ir	your vehicle's	s engine?		
	NO / / YES /	/ DON'T	KNOW / /			
	If Yes, how many ti	mes?		, what bran	d?	
27. 1	Have you ever recei	ved notice tha	t your vehicle	was invol	ved in a recall (campaign?
	NO / / YES /	/, approxima	ite date			
28. a	. Describe the recal	l or give the re	ecall number _			
k	o. Did you take your				repair?	
	YES / / NO /	/				
	. Are the original ti	res, which we	re on the vehic	le when it	was first purc	hased, still on the
	YES / / NO /	/ IF YES	SKIP TO 29b.			
	IF NO, are any orig	inal tires still on	the vehicle now	?		
	YES / / NO /	/ IF NO, SK	IP TO 29b.			
	Where are the remetc.)		_			e., left-front, right-rear
	What is the date o	f the most rece AYS, CHECK	nt tire replacen WITH EPA RE	nent? EP.		
b	. What are the mak (i.e. Radial or Bia	•			•	70R14). Construction icle's tires.
	Left front	Make			Construction	• •

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N001c/N002c	2008 VW/Audi	
Right front		Control No.N001c/N002cRXXC
Left rear		
Right rear		
30. Are the original rin	ns, which were on the	vehicle when first purchased, still on the vehicle?
YES/	NO / / CONSUL	T EPA IF NO.
If NO, e	xplain	
31. Have these tires ev etc.)	er been repaired? (e.g	g. flat tire repaired with a plug or a foam product,
YES /	NO / / DON'T' I	KNOW / /
IF YES,	DESCRIBE	
CONSU	LT EPA IF YES OR DO	ON'T KNOW.
32. a) Have you kept r	ecords of the maintena	ance and repairs performed on your vehicle?
YES / / NO	′ /	
EPA personnel. Frequ	ently, records pertaini	I trunk will need to be opened during by URS and ing to the vehicle's maintenance history are found in provided by you and those found) to be reviewed and
YES / / NO	′ /	
33. EPA needs to share vehicle. Do you agree	•	ecords with the manufacturer to correctly test the
YES / / NO	′ /	
IF RECORDS ARE brought to the lab	CAVAILABLE, <u>INFO</u> for review and duplica	ORM OWNER THAT: It is important that they are ation.
INFORM THE OW	NER THAT:	

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bringing the vehicle to the lab.

All valuables should be removed from the vehicle (including those in the glove box) prior to

EF#8ADXV03.1374 Control No.N001c/N002cRXXC

ALSO <u>INFORM THE OWNER</u> THAT: Due to the location of some systems, the glove box and trunk may need to be opened during maintenance by EPA and/or EPA contractors. Any records pertaining the vehicle's maintenance history found in the vehicle may need to be copied.

	Yes	No	
If yes: what, w	hen, by who	m and cost.	
WHAT			
WHEN			
BY WHOM			COST
ACCEF	T WHATEV	ER THE ANSW	ER. COST
Has your veh	icle ever b	een equipped	l with rustproofing or undercoating?
	Yes	No	don't know If "yes", when and by whom
	A CCEDT	MILLA TEMED	R THE ANSWER IS
	ACCEPT	WHAIEVEN	THE ANSWER IS
MMENTS.			
WINTEN 15			
OWNIENTS			
WINTENTS			
WIVIENTS			
WIWIENTS			
WIWIENTS			
WIVIENTS			
WIWIENTS			
WIWIENTS.			

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State of County of I,	N001c/N002c	2008 VW/Audi	EF#8ADXV03.1374 Control No.N001c/N002cRXXC
State of County of I, being first duly sworn, depose and say: I am the owner () and/or joint owner () and/or principal driver () of the vehicle described in this questionnaire and have personal knowledge of all matter discussed herein. I have read the responses to the questions stated above, and such responses are true and accurate to the best of my knowledge and belief. (Signature) (Date)			
State of County of			
State of County of			
State of County of			
State of County of			
State of County of			
State of County of			
State of County of			
State of County of			T.W.
L,		VIN	
I am the owner () and/or joint owner () and/or principal driver () of the vehicle described in this questionnaire and have personal knowledge of all matters discussed herein. I have read the responses to the questions stated above, and such responses are true and accurate to the best of my knowledge and belief. (Signature) (Date) Jubscribed and affirmed before me, a Notary Public, and I hereby certify that I am duly athorized by the laws of the State of Michigan, County of Washtenaw, to administer oaths. (Seal) Notary Public	State of		County of
I am the owner () and/or joint owner () and/or principal driver () of the vehicle described in this questionnaire and have personal knowledge of all matters discussed herein. I have read the responses to the questions stated above, and such responses are true and accurate to the best of my knowledge and belief. (Signature) (Date) ubscribed and affirmed before me, a Notary Public, and I hereby certify that I am duly athorized by the laws of the State of Michigan, County of Washtenaw, to administer oaths. (Scal) Notary Public	Ι,		
the vehicle described in this questionnaire and have personal knowledge of all matters discussed herein. I have read the responses to the questions stated above, and such responses are true and accurate to the best of my knowledge and belief. (Signature) (Date) Subscribed and affirmed before me, a Notary Public, and I hereby certify that I am duly athorized by the laws of the State of Michigan, County of Washtenaw, to administer oaths. (Seal) Notary Public (Date)	being first duly s	worn, depose and say:	
Subscribed and affirmed before me, a Notary Public, and I hereby certify that I am duly uthorized by the laws of the State of Michigan, County of Washtenaw, to administer oaths. Notary Public (Seal)	the vehicle de discussed her	escribed in this question ein. I have read the res	naire and have personal knowledge of all matters ponses to the questions stated above, and such
Subscribed and affirmed before me, a Notary Public, and I hereby certify that I am duly athorized by the laws of the State of Michigan, County of Washtenaw, to administer oaths. (Seal) (Date)			(Signature)
Subscribed and affirmed before me, a Notary Public, and I hereby certify that I am duly authorized by the laws of the State of Michigan, County of Washtenaw, to administer oaths. (Seal) (Date)			
Notary Public (Date) (Date)			(Date)
Notary Public (Date)		•	
(Date)			(Seal)
	Notary Public		
ly commission expires:	(Date)		
	ly commission expir	es.	

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VW FOIA, EPA 06/20/2017 2017-FFP_001526

QUALIFICATION OF MAINTENANCE INFORMATION

Please c	heck one of the following if the candidate owner is not the original owner of vehicle
	No, the present owner is not the original owner of the vehicle, but does have knowledge of its maintenance history. The answers on the telephone questionnaire are complete and accurate for the entire maintenance history of the vehicle. The reason for the owner's knowledge of the vehicle's history before its purchase has been noted below.
-	
-	
	No, the present owner is not the original owner and does not know the complete maintenance history of the vehicle. The answers to the telephone questionnaire are complete and accurate for the period after the purchase at miles. Oil, filter and spark plug change intervals reported are those known to have occurred after that mileage. Events that occurred prior to that mileage are not included

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The present mileage on this v	rehicle is approximately	
	Signature of Procurement Clerk	-

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8ADXV03.1374

Confirmatory Class #:N001c/N002cRXX-____

IN-USE TESTING MAINTENANCE BEFORE FTP

VEHICLE	E CC	ONTROL #		VI	N		
VEHICLE	ΞM	ODEL		ENGI	NE FAMILY		
					(Speeds if		
ODOMET	ΓER	-		EVAP FA	MILY	FUEL	
DATE				TIME		TYPE	
NOTE: If	fany	y of the foll	owing items are	not applica	able to the vel	nicle being inspected	l, mark N/A.
1. Record		_	information: uild date				
	b.	Actual tir	e sizes Left Fron	t	Right l	Front	
			Left Rear	•	Right	Rear	-
	c.	GWR	Front	Rear	e. CC	DLOR: Exterior	
	d.	Recall car	mpaign sticker	/ / YES	/ /NO	Interior	
		Recall car	mpaign number f	From sticke	r		
		None four	nd				
nozzle to	dete	ermine if re	strictor is operati	onal.		o the unleaded fuel 1	estrictor. Use leaded
REJECT I	IF R	ESTRICT	OR IS DAMAGI	ED OR LE	ADED NOZZ	LE FITS INTO FUI	EL FILLER NECK
3. Remove	e a s	sample of f	uel from the tank	and delive	er to chem. lal	b for analysis.	
4. Determ	ine	the axle rat	io; make 10 whe	el revolution	ons (applicabl	le to rear-drive only)	
		(no. of dr	iveshaft revolution	ons X2) =	=	X 2 =	
		(no. of wl	neel revolutions)		10		
			ALL THE ABOVE IT	TEMS HAVE B			
MECHANIC		MAN	UFACTURER REPRE	SENTATIVE	EPA REPRESE	ENTATIVE	

	2008 Audi A4 and A6 8ADXV03.1	Confirmatory Class #:N001c/N002cRXX
5.	Check brakes for excessive drag. Adjust if	necessary.
	brake drag ok	
	excessive brake drag (adjust	ed)
6.		scoloration, signs of damage, bulges, burn-out or
	catalyst ok	
	other (describe)	
7.	Record the following part numbers.	
	Catalyst	PROM
	TPS Sensor	PCV valve
	Throttle body	ECM (computer)
	O2 Sensor	EGR valve
8.	maintenance:	des in vehicle's computer system at beginning of EPA
	b. Readiness Tests	
	Catalyst	Evap SystemO2 Sensor
	O2 Sensor Heater	EGR system
	c. At the time during the maintenance, is the	e MIL on?
9.	a. Check cooling system, both radiator and necessary.	reservoir (if applicable) for coolant and fill if
	Reservoir	
	level ok level low	coolant added (amount)
	ALL THE ABOVE ITEMS HAVE	BEEN PERFORMED
MECHAN	MANUFACTURER REPRESENTATIVE	EPA REPRESENTATIVE

	1 1	evel low	coolant added	(amount)
b. Check	coolant condi	tion, replace if I	poor.	
		coolant condi coolant condi coolant replac	tion poor, (specify)	
		g pressure checressure check; p	ks: ressure applied:(need p	essure) bar
		no leakage		
		cap leaks		
		cap does not re	lease pressure	
		cap replaced		
R	adiator pressure	e check; pressur	re applied: <u>(need pressure</u>)	<u>bar</u>
		no leakage		
		hoses and clan	nps ok	
		radiator leaks		
		leakage repair	ed	
d. freeze	protection lev	el		
T	$BD \operatorname{spec} = \underline{}$	-## degrees at #	#% mixure adjusted to	
Check dri	ve belts. Repla	ace if cracked, f	frayed, glazed or excessively	worn. Adjust if loose
	belt	(s) ok		
	belt		replaced, specify	

		level ok	level low	Water added					
	/ / M	Taintenance free battery (if equip	ped with an indicator, record	observation).					
		the power steering fluid and add not applicable	•						
			fluid added	(amount)					
	Visual	ly inspect the vehicle for:							
	a.	Signs of obvious tampering.							
		none found Describe	yes						
	b.	Fuel system plug (s). Plug loca							
		all present and intact							
		plug (s) missing; Des	scribe						
	Check	Check all fuel system linkages for free operation. (throttle linkages.)							
		Free operation							
		Sticking, binding, etc.; desc	ribe						
		Repaired, describe							
		the condition of the hoses of the trouting of hoses. Check function	· .						
	a.	Air cleaner hosescorrectly routed, ok	condition						
		air cleaner door fund							
		not ok, specify repaired or replaced	1 11						
		repaired or replaced	, describe						
		ALL THE ABOVE ITEMS H							
H	ANIC	MANUFACTURER REPRESENTA	TIVE EPA REPRESENTATIVE						

	b.	Spark timing control hoses.				
		correctly routed, ok condition				
		not ok, specify				
		repaired or replaced, describe				
	c.	Crankcase emission control hoses.				
		correctly routed, ok condition				
		air moves through PCV system				
		not ok, specify				
		repaired or replaced, describe				
	d.	EGR system hoses.				
		correctly routed, ok condition				
		rpm required for movement rpm				
		not ok, specify				
		repaired or replace, describe				
	e.	Evaporative emission system hoses.				
		correctly routed, ok condition, vent and purge functions OK				
		no ok, specify				
		repaired or replaced, describe				
	f.	Air injection system hoses.				
		not applicable				
		correctly routed, ok condition				
		not ok, specify				
		repaired or replaced, describe				
		ALL THE ABOVE ITEMS HAVE BEEN PERFORMED				
MECHANIC		MANUFACTURER REPRESENTATIVE EPA REPRESENTATIVE				

6 of 12		Audi A4 and A6 Speed control system.		Confirmatory Class #:N001c/N002cRXX
				/ / not applicable
		For O.E. system: correctly ro	uted, ok condition	
		repaired or	replaced, describe	
		For non-O.E. system:		
		/ / System disconnec	cted at throttle	
	h.	List problems found v	vith any other vacuum l	noses.
		no other pr	roblems found	
	A			
16. S	Start en	gine	Time	
	Engine Vehicle			be run until fan operates)
E			YES / / NO / /	with an electric cooling fan
17. C			on fluid level and add i	
0		not applicable		level low
		level ok		fluid added
		ALL THE ABO	OVE ITEMS HAVE BEEN PERF	CORMED
MECHAN	IC .		EPRESENTATIVE EPA RE	FPRESENTATIVE

18. Check electrical wiring for proper connections and integrity of wires (idle solenoid, ignition and spector), engine temperature switches, sensors, etc.).	 ark
wiring ok	
not ok, specify	
repaired or replaced, describe	
19. Exhaust System	
a Drain holes plugged in exhaust system	
Not applicable	
b. Check exhaust system for leaks with engine running.	
No leaks	
System leaks; location	
Leaks repaired; describe	
Beaks repaired, desertoe	
20. a. Remove all spark plugs. See emission label to determine if plug is O.E. Record the information the plug(s) removed.	n fo
Specified O.E. make and number	
Specified gap	
b. <u>Check compression</u>	
Compression Spec. <u>please provide</u> (Always use a fully charged battery to obtain engine speed of 250 rpm or more)	
Cylinder No. Brand Part No. Gap Condition Compression	
1 2	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
1 2	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
1 2	

MECHAN	IC MANUFACTURER R	EPRESENTATIVE EPA	REPRESENTATIVE	
	YesNoNo			
25. Ver	ify if O2 maintenance has been	en performed (from o	wner's records)	
	If the EGR light is on and (from the owner's records			previously by the owner
	Is the EGR maintenance l	light on? Yes	_ No	
	Do only if the truck has o	over mile	s or is over	months old.
24. <u>For</u>	<u>LDTs only</u> (#24 and #25)			
	oil and o	oil filter replaced		
b. 1	Replace oil and filter as recor #W## GF# oil; engin	•	turer:	
_	oil level ok	oil leve	below ½ qt.	
23. a. C	Sheck oil level.			
	k. List below any other non- maintenance None NOTE: Manufacturer recor			
	j. fuel filler cap	O.E. martin formulation of	o vienel elecate en 1.4	andition and
	h. PCV filter			
	g. PCV valve			
	f. distributor rotor			
	e. distributor cap			
	d. ignition wires			
	c. fuel filter			
9 of 12	2008 Audi A4 and A6 b. oil filter	8ADXV03.1374 — — — —	Confirmatory Cla	ss #:N001c/N002cRXX

10 of	12 200	8 Audi A4 and A6	8ADXV03.1374	Confirmatory Class #:N001c/N002cRXX	
		If yes, when?			
If O2	mainten	ance has not been perf	formed, perform the foll	lowing:	_
		Additional maintenan	ice items to be performe	ed:	
26.	Start en	ngine Ti	me	_	
	Engine	warm T	ime	_	
27.	Prepara	ation for parameter set			
		engine at norm	nal operating temperatu	ıre	
		accessory equ	ipment off		
PROC				MENTS ACCORDING TO THE THE EMISSION LABEL AND/OR THE SHO)P
28.	Chec	k idle ignition timing	and adjust if necessary.		
	gear set	ting			
	as recei	ved	at	rpm	
	spec.*		at	rpm	
	set to		at	rpm	
		*See VECI la	bel and/or shop manual		
29.	Check	and adjust, if necessar	ry, the idle speed(s) sett	ings.	
			resent / /yes / / no I label and/or shop man		
		b idle speed ear setting	observe	ed rpm	
	•		OVE HEMS HAVE BEEN LEK		
МЕСНА	ANIC	MANUFACTURER R	EPRESENTATIVE EPA R	EPRESENTATIVE	

MECHANIC

*See VECI label and/or shop manual

	observedvdc
	Spec.
•	List any comments relevant to the inspection performed on this vehicle:
	Record Trouble Codes (after M-2)
•	Attach any special procedures to this form. Special procedures attached? Y / N
Ti	me completed
Da	nte
Si	gnature of mechanic and observers:
	MECHANIC
	EPA REPRESENTATIVE
	MANUFACTURER REPRESENTATIVE

VW FOIA, EPA 06/20/2017 2017-FFP_001539

EPA REPRESENTATIVE

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MANUFACTURER REPRESENTATIVE

	_	
_		
	 	a contrar
	OVE ITEMS HAVE BEEN PEI	
CHANIC	EPRESENTATIVE EPA 1	

To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Berenz, Sebastian"

Sent: Wed 9/22/2010 1:35:11 PM

Subject: RE: EPA's Confirmatory Maintenance Form

N001 maintenance before FTP.doc

FilterReplaceProc.pdf FluidCapacity.pdf OilFilterAssem.pdf OilLevelCheck.pdf

Hello Lynn,

Attached you will find your questionnaire with my added details.

Further I have attached a description for the oil change, specifications for the oil and coolant and how to change the filter.

Let me know if you have any questions on this or need something additionally.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, September 22, 2010 8:26 AM

To: Berenz, Sebastian

Subject: Fw: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

I will need the information for the maintenance very soon. Also, I need to know what the maintenance schedule says regarding oil changes. Do you have a copy of the page from the owner's manual that you

can send me?

Thanks.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

---- Forwarded by Lynn Sohacki/AA/USEPA/US on 09/22/2010 08:24 AM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Berenz, Sebastian" < Sebastian. Berenz@vw.com>

Date: 08/25/2010 04:20 PM

Subject: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

Attached is the form that we use during maintenances for vehicles in a confirmatory class. There are a few items that I need you to provide.

I've indicated those things in red. Please fill in the blanks and return the file to me. Please also let me know if you have any questions.

In case you are interested in seeing the telephone questionnaire, I've attached that as well.

Thanks,

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

(See attached file: N001c-002c TELEPHONE QUESTIONNAIRE.doc)(See attached

file: N001 maintenance before FTP.doc)

2

8ADXV03.1374

Confirmatory Class #:N001c/N002cRXX-____

IN-USE TESTING MAINTENANCE BEFORE FTP

VEHICLE CONTROL #	VIN_			
VEHICLE MODEL	ENGINI	ENGINE FAMILY		
ENGINE CODE/CALIBRATIO	N	TRANSMISSION(Speeds if-M/T)		
ODOMETER	EVAP FAM	nlý		
DATE	TIME	FUEL TYPE		
NOTE: If any of the following i	tems are not applicable	le to the vehicle being inspected, mark	N/A.	
Record the following informa a. Vehicle build dat				
b. Actual tire sizes I	Left Front	Right Front		
]	Left Rear	Right Rear		
c. GWR Fro	nt Rear	e. COLOR: Exterior		
d. Recall campaign	sticker / / YES	/ / NO		
Recall campaign	number from sticker _			
None found				
nozzle to determine if restrictor ok damaged, des	is operational.	or damage to the unleaded fuel restricto	or. Use leaded	
not present				
REJECT IF RESTRICTOR IS D	<u>'AMAGED OR LEAI</u>	DED NOZZLE FITS INTO FUEL FIL	LER NECK	
3. Remove a sample of fuel from	the tank and deliver	to chem. lab for analysis.		
4. Determine the axle ratio; mak	e 10 wheel revolution	s (applicable to rear-drive only).		
(no. of driveshaft	revolutions X2) =	X 2 =		
(no. of wheel reve	olutions)	10		
ALL TH	E ABOVE ITEMS HAVE BEE	EN PERFORMED		
MECHANIC MANUFACTUR	ER REPRESENTATIVE	EPA REPRESENTATIVE	_	

	2008 Audi A4 and A6 8ADXV03.1	Confirmatory Class #:N001c/N002cRXX					
5.	Check brakes for excessive drag. Adjust if	necessary.					
	brake drag ok						
	excessive brake drag (adjust	ed)					
6.	Inspect catalyst body, if so equipped, for disevidence of plug removal.	coloration, signs of damage, bulges, burn-out or					
	catalyst ok						
	other (describe)						
7.	Record the following part numbers.						
	Catalyst	PROM					
	TPS Sensor	PCV valve					
	Throttle body	ECM (computer)					
	O2 Sensor	EGR valve					
8.	maintenance:	des in vehicle's computer system at beginning of EPA					
	b. Readiness Tests						
	Catalyst	Evap SystemO2 Sensor					
	O2 Sensor Heater	EGR system					
	c. At the time during the maintenance, is the MIL on?						
9.	a. Check cooling system, both radiator and a necessary.	reservoir (if applicable) for coolant and fill if					
	Reservoir						
	level ok level low	coolant added (amount)					
	ALL THE ABOVE ITEMS HAVE I						
MECHAN	MANUFACTURER REPRESENTATIVE	EPA REPRESENTATIVE					

	2008 Audi A4 and	A6 8ADXV0	3.1374	Confirmatory C	Class #:N001c/N002cRXX
ŀ	Radiator	level ok			
		level ok level low	coolan	t added	(amount)
b		ondition, replace if po			
		coolant conditi coolant conditi coolant replace	ion poor, (sp	pecify)	
c.		owing pressure check p pressure check; pr		ed: <u>(need pro</u>	essure) bar
	<u>vw:</u>	1.4 1.6 ba 20.323.2			
		no leakage			
		cap leaks			
		cap does not rele	ease pressur	e	
		cap replaced			
	Radiator pres	sure check; pressure	e applied:	(need pressure)	<u>bar</u>
	<u>vw:</u>	1.0 bar 14.5 psi			
		no leakage			
		hoses and clam	ps ok		
		radiator leaks			
		leakage repaire	d		
d	. freeze protection	level			
	TBD spec =	=## degrees at ##	‡% mixure	adjusted to	
<u>VW:</u> Coolai	nt (40 %) and water	(60 %) for temperatur	re down to -	.25 °C / -	
13F.		(50 %) for temperatur		-	
	AL	L THE ABOVE ITEMS HAV	VE BEEN PERF	ORMED	
MECHANIC	E MANUFA	/_ CTURER REPRESENTATI	VE EPA RE	PRESENTATIVE	

Check drive belts. Replace if cracked, frayed, glazed or excessively worn. Adjust if loose	4 2008 Audi A4 and A6 8ADXV03.1374 Confirmatory Class #:N001c/N002cRXX
belt (s) ok belt (s) adjusted or replaced, specify Visually inspect battery for electrolyte level. If level is low add distilled water. level ok level low Water added / / Maintenance free battery (if equipped with an indicator, record observation). Check the power steering fluid and add if necessary not applicable level low	olant (60 %) and water (40 %) for temperature down to -40 °C/ - F.
belt (s) ok belt (s) adjusted or replaced, specify Visually inspect battery for electrolyte level. If level is low add distilled water. level ok level low Water added / / Maintenance free battery (if equipped with an indicator, record observation). Check the power steering fluid and add if necessary not applicable level low level low level ok fluid added (amount) Visually inspect the vehicle for: a. Signs of obvious tampering none found yes b. Fuel system plug (s). Plug location: all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe Sticking, binding, etc.; describe	
Visually inspect battery for electrolyte level. If level is low add distilled water.	Check drive belts. Replace if cracked, frayed, glazed or excessively worn. Adjust if loose
Visually inspect battery for electrolyte level. If level is low add distilled water.	belt (s) ok
level oklevel lowWater added / / Maintenance free battery (if equipped with an indicator, record observation). Check the power steering fluid and add if necessarynot applicablelevel lowlevel lowlevel oklevel lowlevel oklevel low	belt (s) adjusted or replaced, specify
level oklevel low	
Check the power steering fluid and add if necessary.	
Check the power steering fluid and add if necessary. not applicable level low level ok fluid added (amount) Visually inspect the vehicle for: a. Signs of obvious tampering. none found yes be Fuel system plug (s). Plug location: all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE HEMS HAVE BEEN PERFORMED	level oklevel low Water added
not applicablelevel low fluid added (amount) Visually inspect the vehicle for: a. Signs of obvious tampering. none foundyes Describe b. Fuel system plug (s). Plug location: all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.: describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	/ / Maintenance free battery (if equipped with an indicator, record observation).
not applicablelevel low fluid added (amount) Visually inspect the vehicle for: a. Signs of obvious tampering. none foundyes Describe b. Fuel system plug (s). Plug location: all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.: describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	
not applicablelevel low fluid added (amount) Visually inspect the vehicle for: a. Signs of obvious tampering. none foundyes Describe b. Fuel system plug (s). Plug location:all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.: describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	Check the power steering fluid and add if necessary
Visually inspect the vehicle for: a. Signs of obvious tampering. none foundyes	not applicable level low
a. Signs of obvious tampering. none foundyes Describe b. Fuel system plug (s). Plug location:all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	level ok fluid added (amount)
none foundyes Describe b. Fuel system plug (s). Plug location:all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	Visually inspect the vehicle for:
b. Fuel system plug (s). Plug location: all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	a. Signs of obvious tampering.
b. Fuel system plug (s). Plug location: all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	none found yes
all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	Describe
plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	b. Fuel system plug (s). Plug location:
Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	all present and intact
Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	plug (s) missing; Describe
Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	
Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	Check all fuel system linkages for free operation. (throttle linkages.)
	Free operation
	Sticking, binding, etc.; describe

		Repaired, describe							
	Check the condition of the hoses of the following systems for cuts, cracks, or hardening. correct routing of hoses. Check function where indicated, repair if appropriate.								
	a.	Air cleaner hoses. correctly routed, ok condition air cleaner door functional not ok, specify repaired or replaced, describe							
	b.	Spark timing control hoses.							
		correctly routed, ok condition							
		not ok, specify							
		repaired or replaced, describe							
	c.	Crankcase emission control hoses.							
		correctly routed, ok condition							
		air moves through PCV system							
		not ok, specify							
		repaired or replaced, describe							
	d.	EGR system hoses.							
		correctly routed, ok condition							
		rpm required for movement rpm							
		not ok, specify							
		repaired or replace, describe							
	e. Evaporative emission system hoses.								
		correctly routed, ok condition, vent and purge functions OK ALL THE ABOVE ITEMS HAVE BEEN PERFORMED							

4 2008	8 Audi A4 and	d A6 8ADXV03.1374	Confirmatory Class #:N001c/N002cR2
		no ok, specify	
		repaired or replaced, descr	ribe
f.	Air injection	system hoses.	
		not applicable	
		correctly routed, ok conditi	ion
		not ok, specify	
		repaired or replaced, descri	ibe

7 of 14	2008 Audi A4 and A		Confirmatory Class #:N001c/N002cRXX
	g. Speed control	•	
	/ / O.E. system	/ / non-O.E. system	/ / not applicable
	For O.E. syste	m: ectly routed, ok condition	
	not	ok, specify	
	repa	ired or replaced, describe	
	For non-O.E. s	ystem:	
	/ / System di	sconnected at throttle	
	h. List problems	found with any other vacuum	h hoses.
	no	other problems found	
.6. St	art engine	Time	
	ngine warm ehicles equipped with	Time an electric cooling fan shou	
		rates YES / / NO /	with an electric cooling fan
	·	nsmission fluid level and add	
	not applical		level low
	level ok		fluid added
	ALL	THE ABOVE ITEMS HAVE BEEN PE	RFORMED
MECHANIO	C MANUFACT	TURER REPRESENTATIVE EPA	REPRESENTATIVE

18. Check el	08 Audi A4 and A6 ectrical wiring for propense temperature switches	er connections a	and integrity	•		
_	wiring ok	, ,)-				
	not ok, specify					
	repaired or replac	ed, describe				
19. Exhaust	System					
a.	Drain holes pl	ugged in exhau	ıst system			
	Not applicabl	e				
b.	Check exhaust system	for leaks with	engine runni	ing.		
	No leaks					
	System leaks	location				
	Leaks repair	ed; describe				
the plant of the p	ove all spark plugs. See lug(s) removed. d O.E. make and numbed gap	er 	to determine	e if plug is O.E.	Record the informa	tion for
	ssion Spec. <u>please prov</u> rays use a fully charged l		n engine spe	ed of 250 rpm o	r more)	
	<u>VW:</u> difference between o	new 11.0 14 min. 10 bar				
		,,				
Cylinder No. 1 2 3	. Brand	Part No.	Gap	Condition	Compression	
	ALL THE ABO	OVE ITEMS HAVE I	BEEN PERFORM	ÆD		
MECHANIC	MANUFACTURER R	EPRESENTATIVE	EPA REPRE	SENTATIVE		

9 of 14 2008 Audi A4 and A 4 5	8ADXV03		firmatory Class #	:N001c/N002cRXX
If actual plugs are non-O.E., a	re they equivalent t	to O.E.?		
yes	no	Unknown	Not A	pplicable
Replace <u>ALL</u> plugs with O.E List brand and type of new	plugs installed:			
21. Check valve clearances (if SHOW THAT ROCKER)				
Spec:			Spec:	
Intake		(Other)	<u> </u>	
Exhaust		,		
As Received: Intake Exhaust Other Set to: Intake Exhaust Set to: Intake Exhaust	2 3	4 	5 6	7 8
Other 22. Check the following to de found to be excessive parts for which remove	ly worn, or dirty, or	r fouled, or if pa acement.		ndition. Replace any lent to O.E. Also, replace
ALL.	O.E. NONO.I		CONDITION	MAINTENANCE
MECHANIC MANUFACT	URER REPRESENTATIV	EPA REPRESI	ENTATIVE	

10 of 14	2008 Audi A4 and A6 a. air filter	8ADXV03.13	74 Con:	firmatory Class #	:N001c/N002cRXX
	NOTE: Manufacturer reco	ommended air clear	ner filter is:		
	b. oil filter				
	c. fuel filter				
	d. ignition wires				
	e. distributor cap				
	f. distributor rotor				
	g. PCV valve				
	h. PCV filter				
	i. air conditioner				
	j. fuel filler cap				
	k. List below any other no maintenance Non NOTE: Manufacturer rece	e Non-O.E.			
	<u>vw:</u>	for AUDI A6: 4 For AUDI A4: 0			
23. a. Cl	neck oil level.				
_	oil level ok	oil	level below	½ qt.	
b. F	Replace oil and filter as rec #W## GF# oil; eng	•	ufacturer:		
	<u>vw:</u>	<u>VW 50200 oil</u> 5W40 5W30 0W40			
	oil and	oil filter replaced			
24. <u>For l</u>	oil and LDTs only (#24 and #25)	oil filter replaced			
24. <u>For l</u>	LDTs only (#24 and #25)	oil filter replaced	ON PERFORME	D	

11 of 14	2008 Audi A4 and A6	8ADXV03.1374	Confirmatory (Class #:N001c/N002cRXX
	Do only if the truck has o	ver miles	s or is over	months old.
	Is the EGR maintenance l	ight on? Yes	_ No	
	(from the owner's records	s), perform the following	ing:	ed previously by the owner
25. Verif	y if O2 maintenance has bee	en performed (from ov		
	Yes No			
	If yes, when?			
If O2 mai	intenance has not been perfo	ormed, perform the fo	llowing:	
	Additional maintenan	ce items to be perform	ned:	
26. St	tart engine Ti	me		
E	ngine warm T	ime		
27. P1	reparation for parameter set.			
	engine at norm	nal operating temperat	ture	
	accessory equi	pment off		
				DING TO THE LABEL AND/OR THE SHOP
28.	Check idle ignition timing a	and adjust if necessary	7.	
ge	ar setting			
as	received	at		rpm
sp		at OVE ITEMS HAVE BEEN PEI		rpm
MECHANIC		EPRESENTATIVE EPA	REPRESENTATIVE	

12 of 1	4	2008 Audi <i>A</i>	A4 and A6	8ADXV0	3.1374	Confirma	tory Class #	#:N001c/N002cRXX
	set t	o			at			rpm
		;	*See VECI labe	el and/or sho	p manua	1.		•
29.	Che	eck and adju	st, if necessary	, the idle spe	eed(s) set	ttings.		
			tment plugs pre spec. see VECI				'A	
	a.	Curb idle sp			observ	vod		ram
		gear settin	g		OUSCIV			rpm
		spec.*		rpm	set to			_ rpm
		*See VI	ECI label and/o	r shop manu	ıal			
	b. '	TPS output	voltage. (Curb	idle speed)				
	(observed _		vdc	;			
	;	Spec						
30.	Lis	t any comme	ents relevant to	the inspecti	on perfor	rmed on this	vehicle:	
31.	Rec		Codes (after N	,				
32.			cial procedures ares attached?	to this form Y/N				
Tim	ne co	ompleted						
Date	e _							
Sign	natu	re of mechan	nic and observe	ers:				
		MECHA	ANIC			-		
		EPA RE	EPRESENTAT	IVE				
			ALL THE ABOV					
MECHAN	NIC	MA	NUFACTURER RE	PRESENTATIV	E EPA I	REPRESENTATI	IVE .	

MANUFACTURER REPRESENTATIVE _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MANUFACTURER REPRESENTATIVE EPA REPRESENTATIVE MECHANIC

14 of 14 2008 Comments:	Audi A4 and A6	8ADXV03.1374	Confirmatory Class #:N001c/N002cRXX-
-			
	ALL THE ABO	OVE ITEMS HAVE BEEN PEI	RFORMED
			1
MECHANIC	MANUFACTURER R	REPRESENTATIVE EPA	REPRESENTATIVE

WI-XML Page 1 of 10

Engine Oil, Draining and Replacing Oil Filter



/ WARNING

Oil extraction not permitted with various engine ty pes!

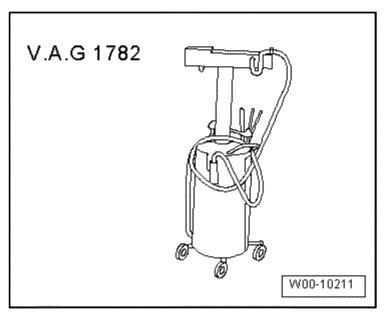


Note

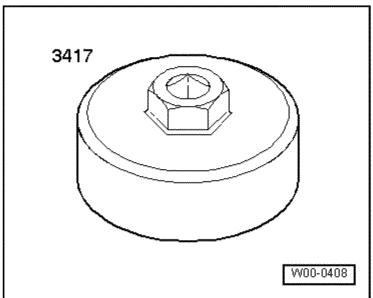
Perform oil change at operating temperature.

Special tools and workshop equipment required

Oil Extractor 1782 Tension Band □2171 □1 □



Oil Filter Key 3417□



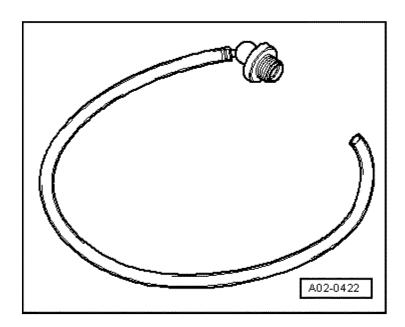
Oil Drain Adapter ☐ 40057 ☐ (2.0 TFSI)



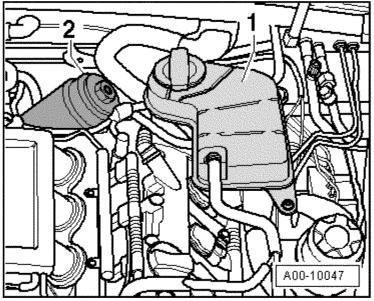
WI-XML Page 2 of 10

Observe waste disposal regulations!

V6 3.0L TFSI and 3.2L FSI



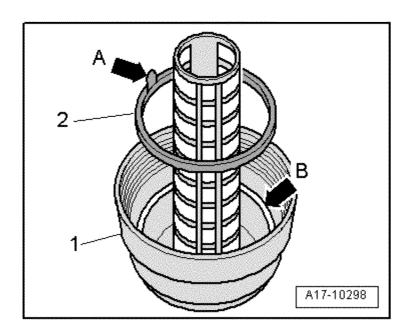
- Remove coolant reservoir ☐ □and lay aside.
- Remove oil filter cover with SW 36 □2 □
- Clean sealing surfaces oil filter cover and at oil filter housing.
- Replace oil filter insert.



Sealing ring on cap, replacing

- Remove sealing ring at pull tab □ arrow A⊟from cap 🗖 🗆
- Insert new sealing ring □2□with semicircular profile in groove arrow B⊡on cap.
- The pull tab ⊡arrow A □ must face upward.
- Smooth side of sealing ring □2□ must face toward outside

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O-ring, inserting in oil filter housing

Insert Oring 12 in groove □ arrow□on oil filter housing 🛛 🗆



Observe waste disposal regulations!

- Engage new oil filter insert in oil filter cover.
- Install oil filter cover □3□
- Install coolant reservoir.
- Remove noise insulation. Refer to → Chapter "Noise Insulation, Removing"
- Open oil drain plug on oil pan or extract engine oil.
- Install oil drain plug.



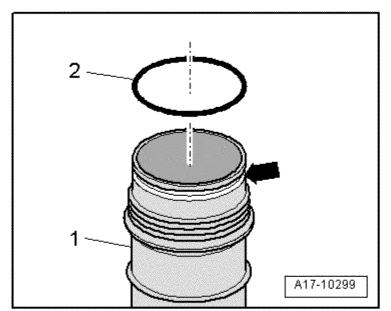
Note

Oil drain plug is installed without seal.

Check for cleanliness.

Tightening Specifications	Nm
Oil filter cover	25
Oil drain plug on oil pan	30

Fill motor oil. Refer to → Chapter "Engine Oil, Filling"



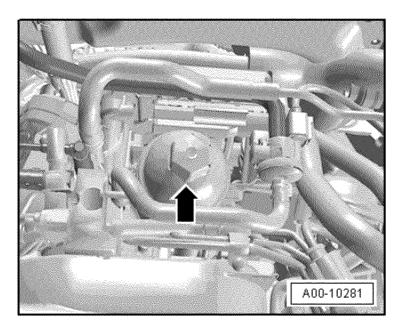
WI-XML Page 4 of 10

For oil specifications and capacities, refer to

→ Fluid Capacity Tables; Rep. Gr.03;

V8 BVJ

- Remove the oil filter cover with a Socket Wrench SW 32 arrow
- Clean sealing surfaces oil filter cover and at oil filter housing.



 Replace Orings 2□and 4□and filter component 3



Note

By removing the filter element, a valve is opened that allows the oil in the filter housing to flow automatically back into the crankcase.

Observe installation position of tab on oil filter.

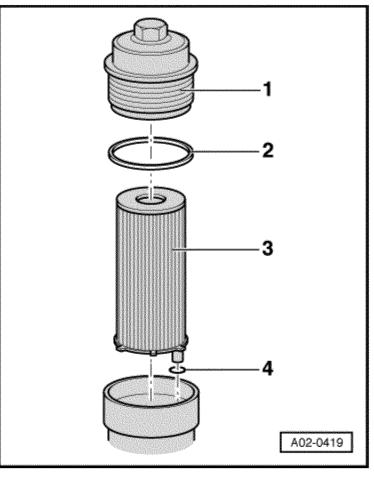
Observe waste disposal regulations!

- Insert new oil filter in filter housing
- Install new O ring 2 and lubricate lightly.
- Install oil filter cover □ □
- Remove noise insulation. Refer to → Chapter "Noise Insulation, Removing"
- Open oil drain plug on oil pan or extract engine oil.
- Install oil drain plug.



Note

Install oil drain plug with new gasket.



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Check for cleanliness.

Tightening Specifications	Nm
Oil filter cover	25
Oil drain plug on oil pan	25

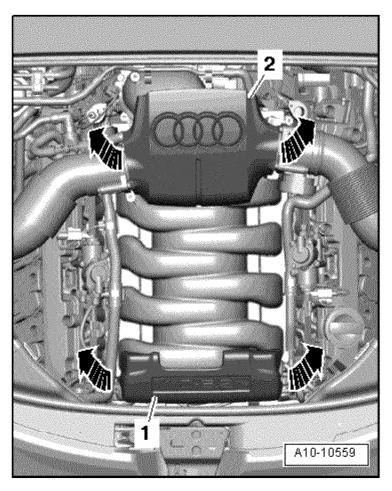
Fill motor oil. Refer to → Chapter "Engine Oil, Filling".

For oil specifications and capacities, refer to

→ Fluid Capacity Tables; Rep. Gr.03;

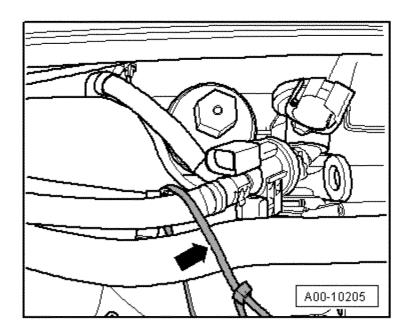
5.2L FSI

- Remove noise insulation. Refer to \rightarrow Chapter "Noise Insulation, Removing"
- Open oil drain plug and drain engine oil.
- Install oil drain plug with new gasket.
- Remove rear engine cover □2 □□ arrows.
- Remove EVAP valve from bracket and lay aside.



- Secure EVAP line, permanent ventilation line and sound pipe line at front with cable ties.

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- Loosen cover ☐ □AF 32.
- Remove filter component □3□
- Replace O rings 2 and 4 and filter element 3

Observe installation position of tab on oil filter.

- Fill with engine oil.

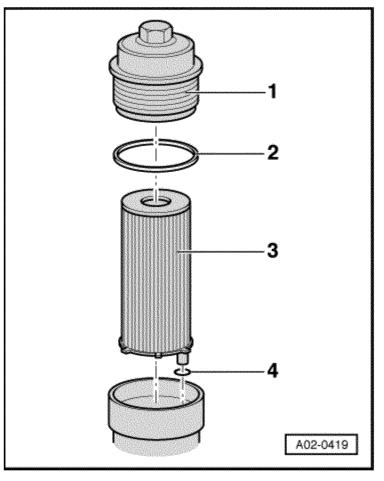
For oil specifications and capacities, refer to

→ Fluid Capacity Tables; Rep. Gr.03;



Note

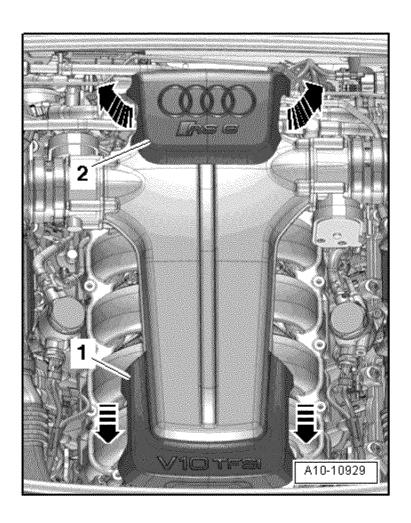
Observe waste disposal regulations!



Tightening Specifications	Nm
Oil filter cover	25
Oil drain plug	25

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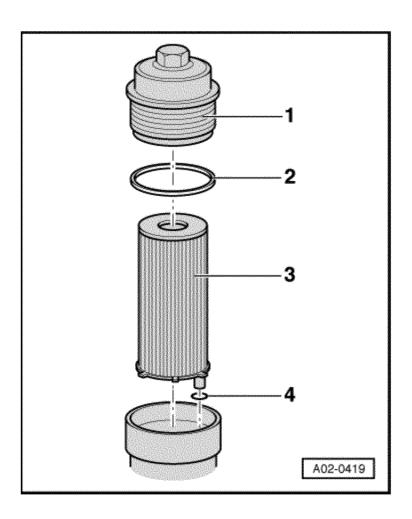
V10 TFSI, RS 6



- Remove rear engine cover □2□ toward the rear arrows.
- Free up the oil filter housing cover $\hfill\Box$ 1 🗆
- Loosen cover ☐ □AF 32.
- Remove filter component ₃□
- Replace Orings ☑ and ☑ and filter element ☑ □

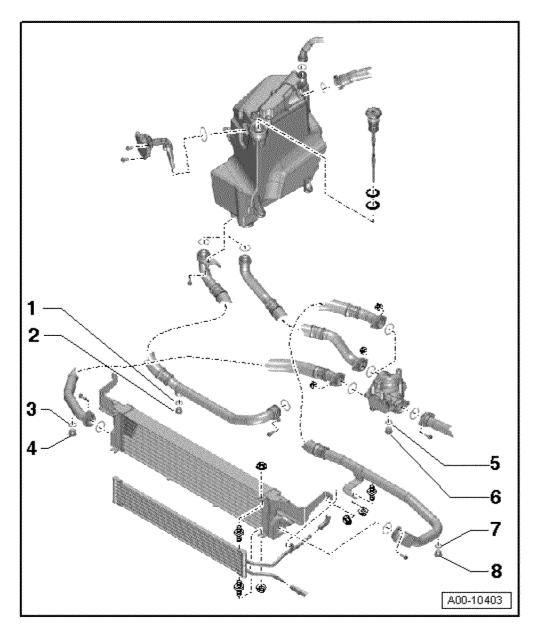
Observe installation position of tab on oil filter.

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- Remove noise insulation. Refer to \rightarrow Chapter "Noise Însulation, Removing"

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- Open the oil drain plugs 2, 4, 6 and 8 and drain the oil.
- Open oil drain plug ☐arrow☐and drain engine oil.
- Install the oil drain plug with a new gasket.
- Remove any remaining oil the oil pan using an oil extractor ☐782□



Note

The number of oil drain plugs will vary between 2 (only on the oil pipes) and 5 depending on the vehicle and engine versions.

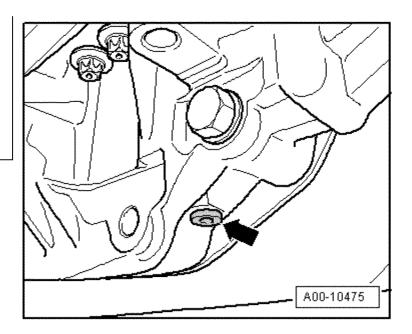
WI-XML Page 10 of 10



WARNING

Pay attention to the tightening specifications.

Always pay attention to the instructions when filling the engine oil. Refer to \rightarrow Chapter "Engine Oil Filling, RS 6".



Tightening Specifications	Nm
Oil filter cover	25
Thermostat housing drain plug	25
Drain plugs on the oil tubes	40
Drain plug on the control housing	12 +/□0.5

 Fill the engine oil. Refer to → Chapter "Engine Oil Filling, RS 6"

For oil specifications and capacities, refer to

→ Fluid Capacity Tables; Rep. Gr.03;



Note

Observe waste disposal regulations!

WI-XML Page 1 of 2

Audi A6/S6



/ Caution

All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.

Refer to Technical Bulletin 2010043 for engine oils meeting the required Audi oil quality standards.

Part numbers are for reference only. Always check with your parts department for the latest informati on.

Component/System		Capacity	Part Number/Specification		
3.2 L Engine					
	Oil and Filter Change	6.5 L (6.9 qt.)	VW 502 00		
	Coolant	9.6 L (10.1 qt.)	G 012 A8G		
4.2 L Engine					
	Oil and Filter Change	9.1 L (9.6 qt.)	VW 502 00		
	Coolant	12.0 L (12.7 qt.)	G 012 A8G		
5.2 L Engine	•				
	Oil and Filter Change	10.0 L (10.6 qt.)	VW 502 00		
	Coolant	15.0 L (16.0 qt.)	G 012 A8G		
Continuously Variable Transmission 01J					
	Initial Fill	7.5 L (7.9 qt.)			
	Refill	4.5 - 5.0 L (4.8 - 5.3 qt.)	G 052 180 A2		
	Front Final Drive	1.3 L (1.4 qt.)	G 052 190 A2		
6 Speed Automatic Transmission 09L					
	Initial Fill	9.8 L (10.3 qt.)	G 060 162 A2		
	Refill	8.0 L (8.5 qt.)	0 000 102 AZ		

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	Front Final Drive	1.1 L (1.2 qt.)	G 052 145 S2
	Transfer Case	0.6 L (0.6 qt.)	G 055 145 A2
	Rear Final Drive - 0AR	0.9 L (1.0 qt.)	G 052 145 S2
	Rear Final Drive - 01R	1.5 L (1.6 qt.)	G 052 145 52
6 Speed Automatic Transmission 09E			
	Initial Fill	10.4 L (11.0 qt.)	G 055 005 A2
	Refill	10.0 L (10.6 qt.)	G 000 000 A2
	Front Final Drive	1.1 L (1.2 qt.)	
	Transfer Case	1.2 L (1.3 qt.)	G 055 145 S2
	Rear Final Drive - 0AR	0.9 L (1.0 qt.)	G 055 145 52
	Rear Final Drive - 01R	1.5 L (1.6 qt.)	
Brake System			
	-	1.0 L (1.1 qt.)	G 000 750
A/C System			
	Refrigerant	530 ± 20 g (18.7 ± 0.7 oz.)	See ETKA
	PAG Oil	130 ± 10 cc (4.4 ± 0.3 fl. oz.)	G 052 300 A2
Window/Headlamp Washer System			
	-	4.8 L (5.1 qt.)	G 052 164

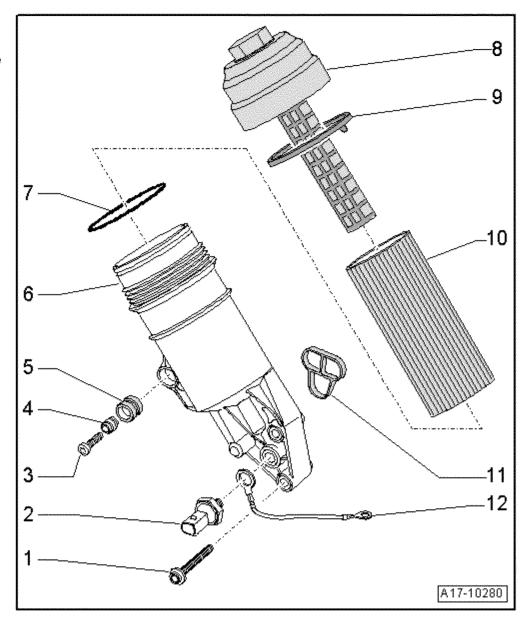
edition-061110

WI-XML Page 1 of 4

Oil Filter Housing Assembly Overview

Vehicles through 04.2005

- 1 13 Nm
- 2 Oil pressure switch -F1-



Black insulation

checking → Chapter "Oil Pressure, Checking"

Removing and installing \rightarrow Chapter

Tighten to 20 Nm.

- 3 13 Nm
- 4 Sleeve
- 5 Rubber grommet
- 6 Oil filter housing

WI-XML Page 2 of 4

> with filter by&pass valve 3.0 bar with oil check valve Oil check valve cannot be replaced Removing and installing \rightarrow Chapter

7 - O-ring

Replace inserting \rightarrow Fig.

8 - Cover - 25 Nm

9 - Seal

Replace

Removing and installing \rightarrow Fig.

10 - Oil filter element

Removing and installing

→ Booklet405

11 - Gasket

Replace

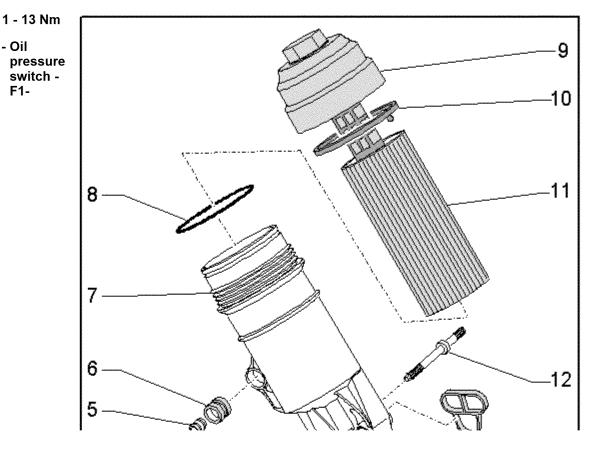
12 - Seal with ground (GND) wire

Replace

Vehicles from 05.2005

2 - Oil pressure

switch -F1-



WI-XML Page 3 of 4

Tighten to 20 Nm.

Black insulation

Removing and installing, refer to → Chapter "Oil Pressure Switch"

Checking → Chapter "Oil Pressure, Checking"

3 - Multi-point socket head union nut - 13 Nm

- 4 13 Nm
- 5 Sleeve
- 6 Rubber grommet

7 - Oil filter housing

With filter by&pass valve 3.0 bar

With oil check valve

Oil check valve cannot be replaced

8 - O-ring

Inserting, refer to → Fig. "O&ring, Inserting on Oil Filter Housing"

9 - Cover - 25 Nm

10 - Seal

Replace

Removing and installing, refer to → Fig. "Sealing Ring on Cap, Replacing"

11 - Oil filter element

Removing and installing, refer to

→ Booklet405

12 - Stud bolt - 16 Nm

13 - Gasket

Replace

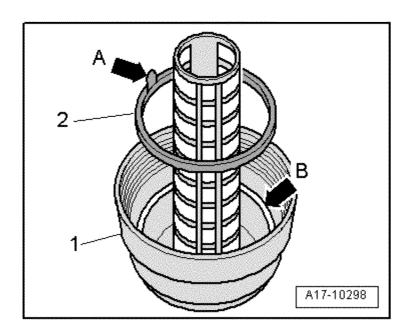
14 - Seal with Ground (GND) wire

Replace

Sealing Ring on Cap, Replacing

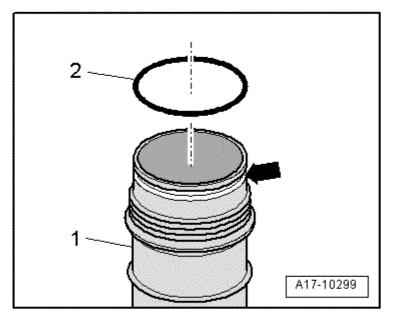
- Remove sealing ring &2& at pull tab & arrow A& from cap & 1&.
- Insert new sealing ring with semicircular profile in groove & arrow B&on cap.
- The pull tab & arrow A& must face up.

WI-XML Page 4 of 4



O-ring, Inserting on Oil Filter Housing

Insert O&ring &2& in groove & arrow& on oil filter housing &1&.



WI-XML Page 1 of 2

Engine, Checking Oil Level



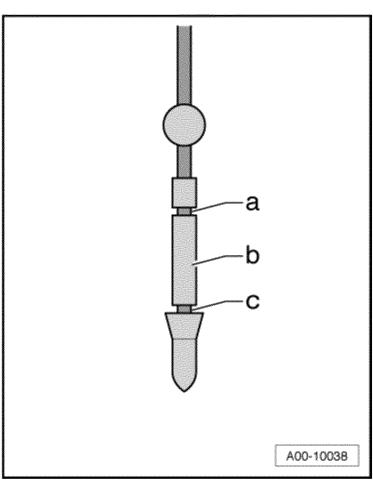
Minimum engine oil temperature 140°F (60°C).

Vehicle must be in level position.

After stopping engine, wait a few minutes to allow oil to flow back into oil pan.

- Pull out oil dipstick and wipe with clean rag. R eplace dipstick and push down to stop.
- Pull out dipstick again and read oil level.

Markings on dipstick:



- a Oil must not be topped off.
- b Oil can be topped off. This will cause the oil level to be in area
- c Oil must be topped off. It is sufficient when oil level is in area -b- (grooved field).



Note

Oil level must not exceed -a- mark on dipstick.

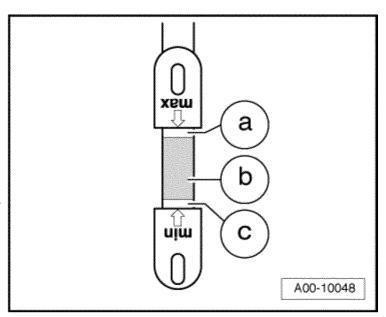
WI-XML Page 2 of 2

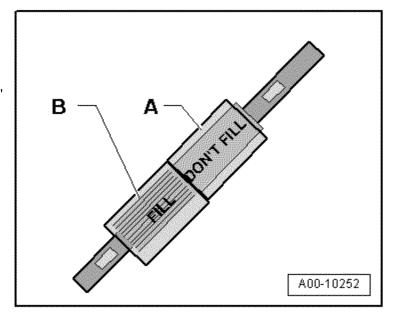
Checking Engine Oil Level, RS 6

- Follow these steps in sequential order.
- Place the vehicle in a horizontal position.
- Let the engine warm at different RPMs less than 2,500 RPM until the engine oil reaches a temperature of approximately 212 to 230 °F (100 to 110 °C) according to the instrument cluster. Refer to Owners Manual.
- Let the engine run in idle for 3 minutes.
- Switch off the engine and let the oil drain down for two minutes; then check the oil level within 10 minutes.
- Add engine oil if necessary.
- Oil level in the "B" range add
- Filling capacity approximately 1
- The oil level can be within the "A" range.



Add oil until the oil level is 5 mm below the upper edge of the "Do not Fill" range.





From: "Berenz, Sebastian" Wed 9/22/2010 2:19:42 PM Sent: Subject: maintenance guide 2008 AU Maintenance Cards.pdf sebastian.berenz@vw.com Hello Lynn, Attached you will find the missing maintenance card which shows when a oil change is needed. Best regards. Sebastian Berenz Manager In-Use Emission Compliance **Environmental Engineering Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207 E-Mail: sebastian.berenz@vw.com http://www.volkswagen.com P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

Sohacki.Lynn@epamail.epa.gov[Sohacki.Lynn@epamail.epa.gov]

To:



2008 Scheduled Maintenance Intervals

Miles (in thousands)	5/25/45/65/85/105	15/55/95	35/75
Kilometers (in thousands)	8/40/70/100/130/160	25/85/145	55/115
Engine Oil abongo all and conloss filter	7	1	1
Engine Oil – change oil and replace filter Wiper Blades – check condition and replace if necessary			
Wiper/Washer/Headlight Washer – check adjustment and function, add fluid if necess	prv. I		
	ary i		
Tires and Spare – check for wear and damage, check pressure	10 mg/m		
 check for wear and damage, check pressure and renewal date of tire set (where applicable) 		'	
Tires – rotate	5K only		
Service Reminder Display – reset			
Brake System – check for damage, leaks, pad thickness, fluid level	and the state of t		
Cooling System – check level, add if necessary		i i	
Exhaust System - check for damage, leaks			
Engine On-Board Diagnostics – check fault memory		Except Audi Q7, TT, A5, S5 and R8	Except Audi Q7, TT, A5, S5 and F
Engine Compartment - check for leaks		Except Add Q1, 11, 70, 50 did to	Encopristation (11,710,00 and)
Battery – check and replace if necessary			
Dust and Pollen Filter – replace			
Automatic Transmission and Final Drive – check for leaks			4
Manual Transmission and Final Drive – check for leaks			
			14.00 <u>2</u> .00 000
Haldex Clutch – change oil			A3 and TT only
Front Axle – check for excessive play, check dust seals on ball joints and tie rod ends		Except Audi Q7, TT, A5, S5 and R8	
_ights – check all lights, check headlight adjustment		A8 and S8 only	Except Audi Q7, TT, R8, A5 and
Drive Shaft Boots – check			
Front Sunroof Drains (where applicable) – open sunroof to check front water drain and clean if necessary (U.S. only)			
Plenum Panel – remove cover to plenum panel to check water drains and clean			A4, A4 Avant, A4 Cabriolet, S4, S4 Avant, S4 Cabriolet,
f necessary (U.S. only)			S4, S4 Avant, S4 Cabriolet, RS4, RS4 Cabriolet, A6, A6 Avan S6, A8 and S8 only
Doors – lubricate doors, check straps and hood latch		A8 and S8 only	
Spark Plugs – replace at 35,000 miles or 3 years, whichever occurs first.			35K only: A3 3.2L, TT 3.2L and A8 6.0L
Then, every 40,000 miles or 3 years, whichever occurs first.			and A8 5.UL
 replace at 55,000 miles or 6 years, whichever occurs first. 		Except A3 3.2L, TT 3.2L and A8 6.0L	
Then, every 60,000 miles or 6 years, whichever occurs first.			
- replace at 75,000 miles			75K only: A3 3.2L, TT 3.2L and A8 6.0L
Continuously Variable Transmission (multitronic) – change ATF			1.00
Power Steering Fluid – check, add if necessary			1
Air Cleaner – clean housing, replace filter element		55K only: except RS4, Audi Q7 4.2L and A8 6.0L	35K only: RS4, A8 6.0L: 75K only: RS4, Audi Q7 4.2L and A8 6.0L
Ribbed V Belt and Tensioner – check condition and replace if necessary		RS4 and R8 only	RS4, Audi Q7 3.6L, A8 6.0L and R8 only
Ribbed V Belt – replace			75K only: S4
- check condition and replace if necessary. Check tension of belt drive with	1		75K only: 2 0L, 3.2L, 4 2L FSI
manual tensioner and retension if necessary.	pri Taran ang mananan		and 5.2L
Snow Screen for Air Cleaner – clean		A4, A5, S5 and A6 only	A4, A5, S5 and A6 only
Underbody – check for damage and leaks			
Road Test – check braking, kick-down, steering, electrical, heating and ventilation systems, air conditioning, ASL Automatic Shift Lock and power accessories			- 1
Rear Lid Hinges – lubricate		A8 and S8 only	A8 and S8 only
Horn – check function		. At the sound	no and ocionly
Brake Discs – check thickness			
			LANGUAGE TE SE OF THESE
_ights – check all lights via instrument cluster. Check license plate light from the rear of the vehicle			Audi Q7, TT, A5, S5 and R8 only
Interior Lights – check all interior lights, glove box illumination, control lights			
and MMI (if applicable)			
S Tronic – change oil and replace filter element			A3 and TT only

At 110K miles (175,000 km) replace timing belt (2.0L engine only). Check condition of timing belt tensioning system, dampening pulleys, and idler pulleys and replace if necessary (2.0L engine only).

Audi of America, Inc. believes the information and specifications to be correct at the time of printing. Specifications, maintenance intervals, standard features and options subject to change without notice.

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: []
Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Wed 9/22/2010 3:22:02 PM **Subject:** Re: maintenance guide

sebastian.berenz@vw.com

Thanks again!

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" < Sebastian. Berenz@vw.com >

To: <Sohacki.Lynn@epamail.epa.gov>

Date: 09/22/2010 10:20 AM Subject: maintenance guide

Hello Lynn,

Attached you will find the missing maintenance card which shows when a oil change is needed.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT! [attachment "2008 AU Maintenance Cards.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

sebastian.berenz@vw.com
Hello Lynn,
In order to answer your questions I have some additional information for you.
Oil:
You can use one of the following oils, as long as they are specified to the VW50200 standard
· 5W40
· 5W30
· 0W40
Oilfilter:
You need to order the following part number:
· 06E 115 562 A
It contains a filter and the gaskets
Then follow the descriptions I send you.
If you need one of these things we can support you with these parts. I checked for them and we have them in stock.
Just let me know.
If you have further questions, do not hesitate to task me.

To:

From:

Sent:

Lynn Sohacki/AA/USEPA/US@EPA[]

"Berenz, Sebastian" Fri 9/24/2010 12:42:36 PM

Subject: open questions

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211

Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

Healy/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA[]; im Snyder/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA; Chris Nevers/AA/USEPA/US@EPA; Joel Ball/AA/USEPA/US@EPA[]; tephen Healy/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA[]; hris Nevers/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA[]; oel Ball/AA/USEPA/US@EPA[] From: "Kata, Leonard" Fri 9/24/2010 12:57:42 PM Sent: Subject: EPA/Audi Meeting Report Meeting Report AUG 19 2010.doc Hello all: Attached is a copy of a report from a meeting between you and representatives of Audi AG and Volkswagen Group of America, Inc. This meeting was held on August 19, 2010. Please note the open issues in the "Comments" section. Best regards, Len Leonard W. Kata Manager, Emission Regulations and Certification **Engineering and Environmental Office** Volkswagen Group of America, Inc. Phone: (248) 754-4204

Linc Wehrly/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA;Stephen

To:

VW FOIA, EPA 06/20/2017 2017-FFP_001580

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

VW FOIA, EPA

2

06/20/2017

To: Linc Wehrly/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA[]; tephen Healy/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA[]; hris Nevers/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA[]; oel Ball/AA/USEPA/US@EPA[] From: "Kata, Leonard" Sent: Fri 9/24/2010 3:24:40 PM Subject: RE: EPA/Audi Meeting Report 01 st-st FTP_data.pdf
Hello all:
As mentioned in the meeting report provided earlier today, EPA requested some data to support a management decision regarding testing of a start-stop device. Attached, please find a short presentation that includes a modal analysis and description of the emissions impact due to the use of the device. In my telephone conversation with Linc earlier today, and my message to Jim, I believe that I referred to the start/stop system as using a "default-on strategy." This is not correct. In our presentation from August 19, 2010 and the attachment to this e-mail, we identify the system as using a "last mode strategy." The intent would be to conduct the testing in the "On" mode.
Our request is for approval for testing GHG CO2 with the system active, assuming that a field survey later demonstrates that this is the predominant operating mode.
If an official response is not possible at this time, some indication of EPA's thoughts and inclination would be appreciated.
Best regards,
Len
Leonard W. Kata
Manager, Emission Regulations and Certification
Engineering and Environmental Office

VW FOIA, EPA 06/20/2017 2017-FFP_001582

Volkswagen Group of America, Inc.
Phone: (248) 754-4204
Cell: (248) 797-3886
E-Mail: leonard.kata@vw.com
From: Kata, Leonard
Sent: Friday, September 24, 2010 8:58 AM To: 'wehrly.linc@epa.gov'; 'Snyder.Jim@epamail.epa.gov'; Healy.Stephen@epamail.epa.gov;
Nevers.Chris@epamail.epa.gov; Ball.Joel@epamail.epa.gov Subject: EPA/Audi Meeting Report
Hello all:
Tieno dil.
Attached is a copy of a report from a meeting between you and representatives of Audi AG and Volkswagen Group
of America, Inc. This meeting was held on August 19, 2010.
Please note the open issues in the "Comments" section.

Best regards,		
Len		

Leonard W. Kata

Manager, Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: "Hart, Robert (VWoA)" Sent: Mon 9/27/2010 2:24:21 PM Subject: VW Group: Test Waiver Requests Submitted Hello Jim, I have just finished submitting four test waiver requests to Verify for model year 2011 test group BADXV04.2375. There are two vehicles representing the R8 Spyder and R8 Coupe with an existing 4.2I V8 engine and an automated manual transmission and a manual transmission. These cars are getting new catalysts (which has already been discussed with you), a new calibration, new injectors and a separate AIR pump for each bank for model year 2011. Let me know if you have any questions. Best regards, **Bob Hart** Robert Hart Engineering and Environmental Office Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4224 Fax: (248) 754-4207

To:

Jim Snyder/AA/USEPA/US@EPA[]

1

E-mail: robert.hart@vw.com

To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Mon 9/27/2010 8:21:18 PM Test Waiver Request Errors - 9/27/2010
Hello Jim,	
This is in re	gard to our phone conversation on 9/27/2010.
waiver requ	d an error that I made in the percent of standard for the SCO3 4k CO tests results for the R8 test uests. The macro I used added the DF to the 4k result before calculating the percent of ctually, the results were less than 70% for both tests.
To compou	nd that error, I thought the confirmatory test criteria was greater than or equal to 90%.
	ted out to me that it is only greater than 90%, so since the FTP 50k NOx is 90.0% percent of the is not necessary to perform manufacturer retests.
I apologize	for the confusion. It's been a rough Monday.
Best regard	is,
Bob Hart	
Robert Har	t
Engineering	g and Environmental Office
Volkswager	n Group of America, Inc.
3800 Hamli	n Road
Auburn Hill	s, MI 48326

Phone: (248) 754-4224

Fax: (248) 754-4207

E-mail: robert.hart@vw.com

Subject: Copy of the owners manual 20100929112132186.pdf sebastian.berenz@vw.com Hello Lynn, Attached you will find a copy of the owner's manual which shows when service is required. There is a 1 year guideline. If you have further questions let me know. Best regards. Sebastian Berenz Manager In-Use Emission Compliance **Environmental Engineering Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207 E-Mail: sebastian.berenz@vw.com http://www.volkswagen.com P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

Lynn Sohacki/AA/USEPA/US@EPA[]

"Berenz, Sebastian"

Wed 9/29/2010 3:27:29 PM

To:

From:

Sent:

06/20/2017

Authorized Audi dealers

Audi recommends you take your vehicle only to authorized Audi dealers to ensure that vehicle repairs are performed to the highest specifications. Your authorized Audi dealer has the proper tools and equipment, the staff of trained specialists, and access to the extensive range of parts necessary to properly maintain your vehicle's safety, reliability, and value for years to come.

Audi R8 Service and Repairs

Due to the specialized tools, equipment, and technical training necessary to perform service and repairs on the Audi R8, Audi recommends that all maintenance service and repair work is performed at an authorized Audi dealer with the designation Audi R8 Certified Point or Audi R8 Service Point. Audi will not accept any liability for maintenance service, repair, or any damage resulting from maintenance service or repair performed at a facility that is not an authorized Audi dealer with the designation Audi R8 Certified Point or Audi R8 Service Point.

When do I bring my vehicle in for service?

Service intervals

If you are not sure when you should bring your Audi in for service or which services are to be performed on your vehicle, ask your authorized Audi Service Advisor.

n miles (kilometers)
Minor Maintenance Service with tire rotation
Major Maintenance Service
Minor Maintenance Service
Major Maintenance Service with additional items
Minor Maintenance Service
Major Maintenance Service with additional items
Minor Maintenance Service
Major Maintenance Service with additional items
Minor Maintenance Service
Major Maintenance Service
Minor Maintenance Service
Timing Belt Replacement (TT 2.0T front wheel drive and A4 Cabriolet 2.0T only)
NOVIEW CONTRACTOR CONT

The time-sensitive maintenance items table contains additional maintenance items

- a) First minor maintenance service at 5,000 miles (8,000 km) or 1 year after delivery, whichever occurs first.
- b) First major maintenance service at 15,000 miles (25,000 km) or 1 year after the first minor service, whichever occurs first. Maintenance Services thereafter occur at 10,000 mile (15,000 km) intervals or 1 year from last service, whichever occurs first (alternating between minor and major services).

A comments

6

2017-FFP_001590

Maintenance

The intervals shown in this table are based on vehicles operating under normal conditions. In case of severe conditions, such as extremely low temperatures, excessive dust, etc., it is necessary for certain operations to be carried out in between the given intervals. This applies particularly to engine oil changes and the cleaning or replacing of the air cleaner filter element.

Time-sensitive maintenance items

The following maintenance items contain special time-sensitive service intervals (in addition to mileage intervals where applicable).

Service interval by time (and mileage where applicable)	Maintenance item
Every 2 years regardless of mileage (kilometers)	Replace brake fluid (all vehi- cles)
Every 2 years regardless of mileage (kilometers)	Check cloth top function and roll-over protection with cloth top down (Audi A4 Cabriolet and Audi S4 Cabriolet only)
At 3 years or 35,000 miles (55,000 km), whichever occurs first. Thereafter every 3 years or 40,000 miles (60,000 km), whichever occurs first.	Replace spark plugs (Audi A3 3.2L, Audi TT 3.2L, and Audi A8 6.0L only)
At 6 years or 55,000 miles (85,000 km), whichever occurs first. Thereafter every 6 years or 60,000 miles (90,000 km),	Replace spark plugs (all models except Audi A3 3.2L, Audi TT 3.2L, and Audi A8 6.0L)

whichever occurs first.

For the sake of the environment

By regularly maintaining your vehicle, you help make sure that emission standards are maintained, thus minimizing adverse effects on the environment.

Maintenance service schedule

Minor Maintenance Service

First at 5,000 miles (8,000 km) or 1 year after delivery, whichever occurs first. Thereafter every 20,000 miles (30,000 km) or two years, whichever occurs first.

Engine oil / Oil filter - Change oil and replace filter.

Service reminder indicator display - Reset display.

Brake system - Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades - Check condition and replace if necessary.

Windshield washer and headlight washing system - Add fluid if necessary. Check adjustment and function.

Tires and spare wheel - Check for wear and damage. Check tire pres-

Additional item at 5,000 miles (8,000 km) or 1 year after delivery, whichever occurs first.

Rotate tires

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Wed 9/29/2010 6:15:32 PM

Subject: In-use vehicles scheduled for next week

In-Use Parameters Form.xls

Hi, Sebastian.

Listed below is the information for the vehicle that we have scheduled for next week. I will send another shortly.

N001RXX-0043c (2008 Audi/A4) - **Ex. 6** , 10/06/10 (Wednesday) 0930 pick up.

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

1

06/20/2017

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

VW FOIA, EPA

To: Lynn Sohacki/AA/USEPA/US@EPA[] From: "Berenz, Sebastian" Sent: Thur 9/30/2010 7:45:43 PM Subject: RE: In-use vehicles scheduled for next week In-Use Parameters Form N001RXX-0043c-3.1FSI drain refill.pdf Hello Lynn, Attached you will find the required data for the first confirmatory car. We will be in Ann Arbor around lunch time on Wednesday next week to inspect the car. Please let me know when you need additional data. Best regards. Sebastian Berenz Manager In-Use Emission Compliance **Enviromental Engineering Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207 E-Mail: sebastian.berenz@vw.com http://www.volkswagen.com P Before you print it, think about your responsibility and commitment to the ENVIRONMENT! ----Original Message-----From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov] Sent: Wednesday, September 29, 2010 2:16 PM To: Berenz, Sebastian Subject: In-use vehicles scheduled for next week Hi. Sebastian. Listed below is the information for the vehicle that we have scheduled for next week. I will send another shortly. 10/06/10 N001RXX-0043c (2008 Audi/A4) Ex. 6 (Wednesday) 0930 pick up. Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



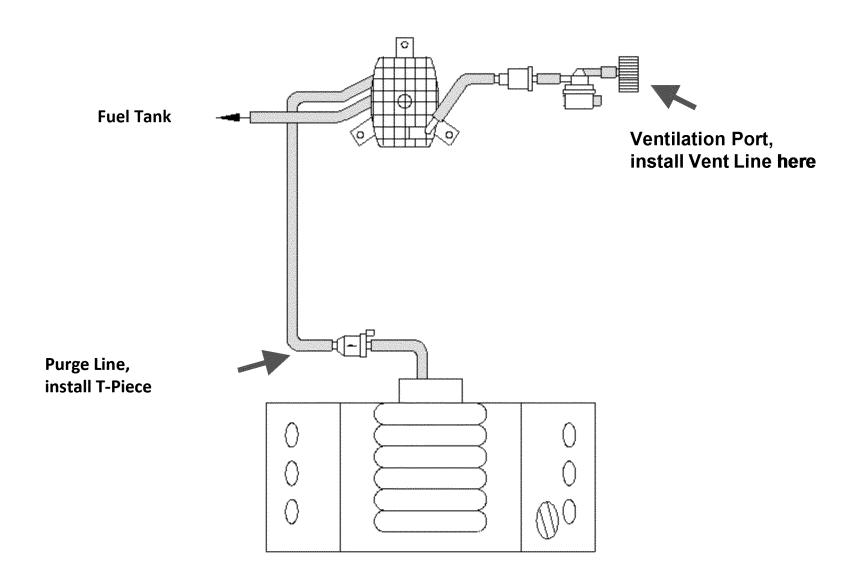
National Vehicle and Fuel Emissions Laboratory 2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

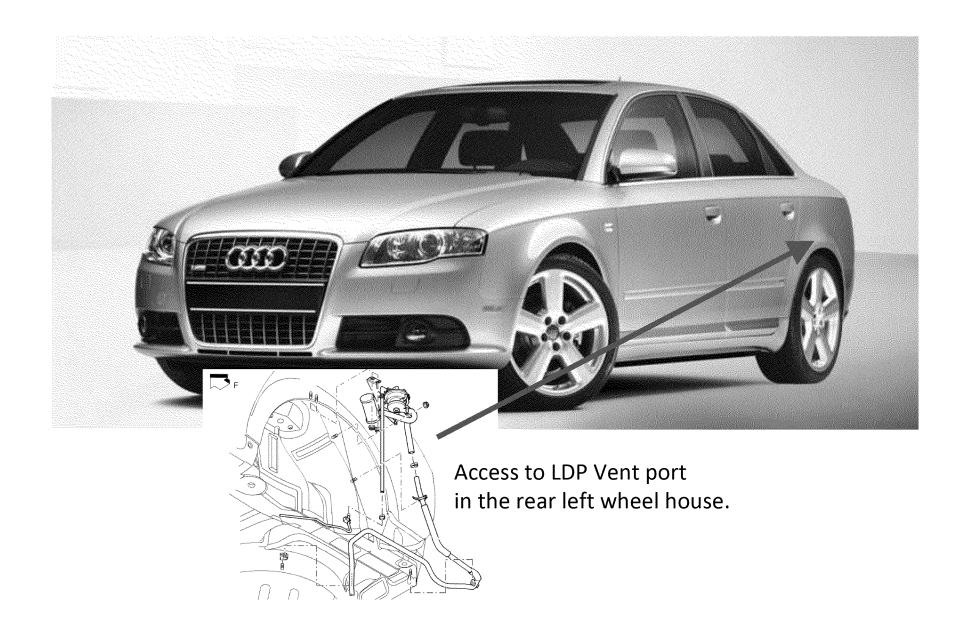
EPA Vehicle Control Number:		N001RXX-	0043c]
Equivalent Test Weight:			4000.	0 Pounds		
Nominal Fuel Tank Capacity:			16.	9 Gallons	40% Fill	6.76 Gallons
Drive Axle:		front wheel	drive	Front, Re	ar or All whe	el drive
Tire Pressure:		see sticker	on driver	siPSI		
Mfr. Shift Schedule (if requir	ed)	n.a.	FTP	n.a.	HWY	n.a. US06
Vehicle Target Road-Load Co	oefficients		Vehicle	Set Road-	Load Coeff	icients
A 37.77	Lb-force			Α		Lb-force
B 0.4667	Lb-force*	mph	1	В		Lb-force*mph
c 0.0182	Lb-force*	mph^2	•	С		Lb-force*mph ²
Does this vehicle qualify for relaxed	l in-use stan	ida rds as set	t forth in 4	0 CFR 86.18	811-04(p)?	N (Y/N)
Vehicle Starting Instructions,	, including	Traction	Control	disabling		
After starting the vehicle press ESP-Button	and keep pre	ssing for 3 sec	ond to disabl	e the traction o	control.	
To avoid unnecessary delays, please provi	de specific ins	tructions and p	ictures (if ne	cessary) for th	e following items	s:
Canister Loading Process:	see attached manual					
Fuel Draining Process:	see attached manual					
ABS Disabling Process:	n/a					
Fuel Switch Process (Flex Fuel	only):	n.a.				
Comments:						
	F:	or internal E	PA Use C	nlv [.]		
This information was obtained from: * Letter, e-mail, fax or other doc (attach ar * Verbal instruction from the ma * Other (specify)	cument delivere	d from the manu	facturer			
Manufacturer Representative:						
EG&G Representative:					Date:	

EPA Representative:	Date:	

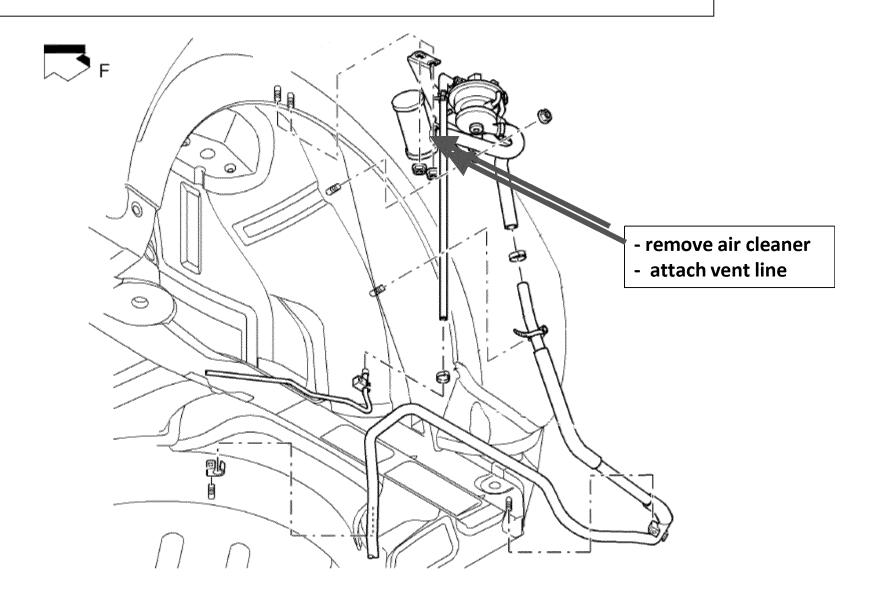
Structure of the Evap. System for Canister Loading/Purging



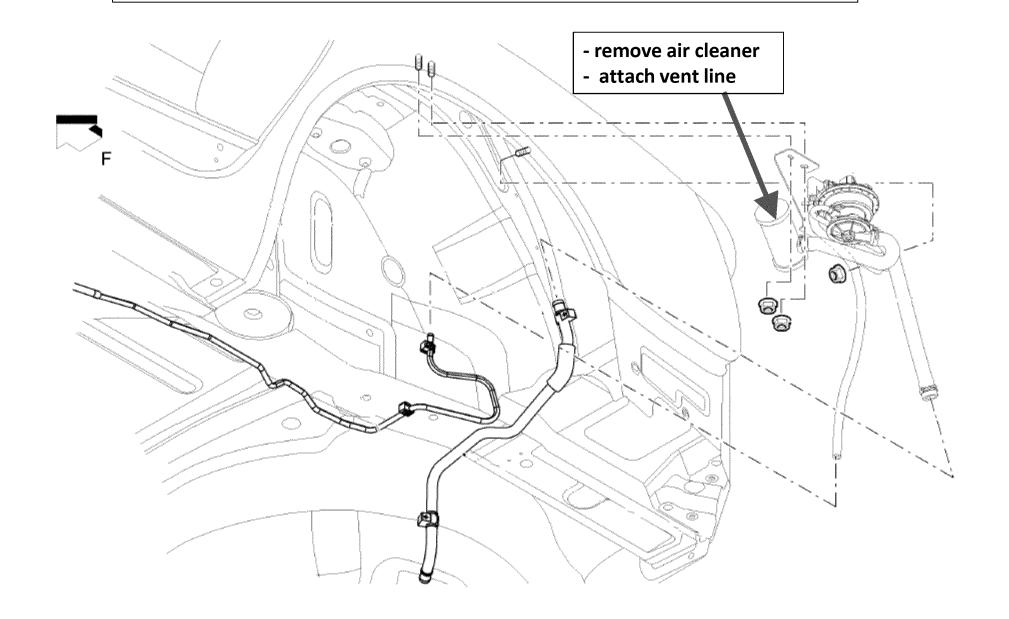
Audi A4, access to LDP Vent Port – rear left wheelhouse



Audi A4, access to LDP Vent Port – rear left wheelhouse



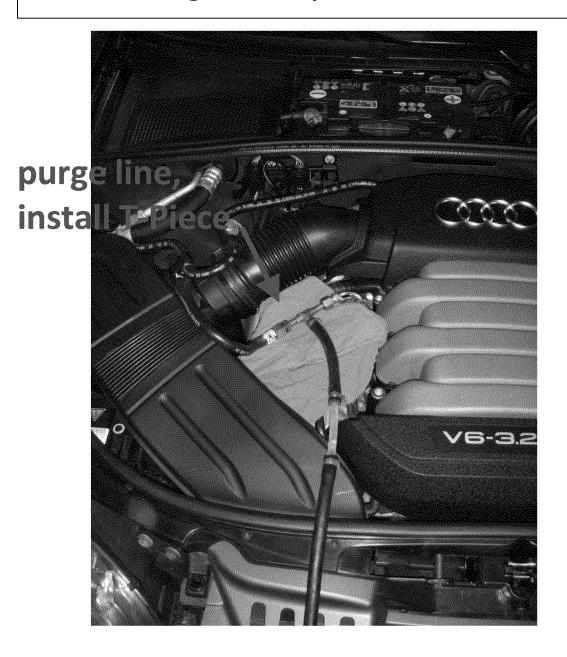
Audi A6 access to LDP Vent Port – rear left wheelhouse



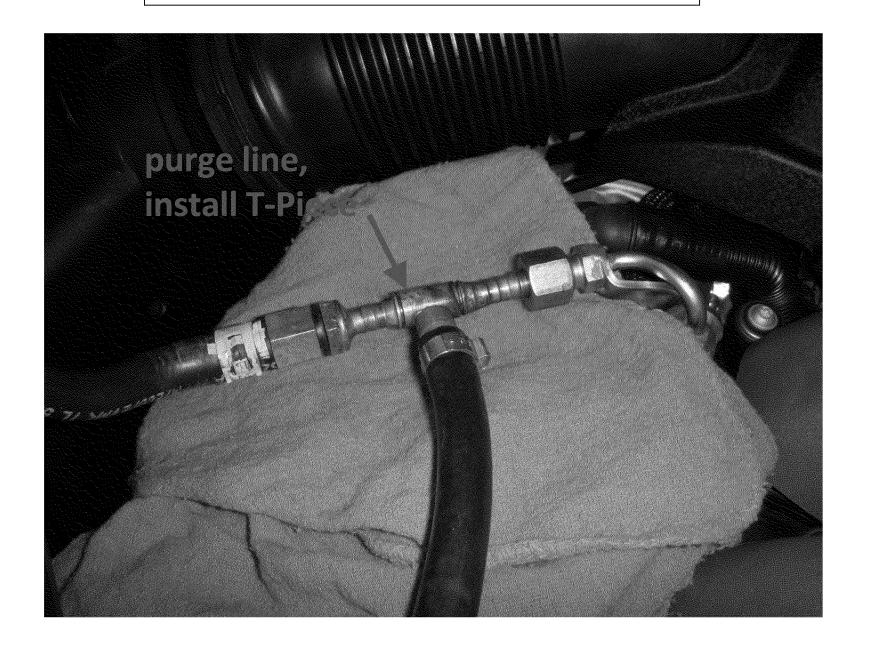
Engine Compartment



Engine Compartment



Engine Compartment



ESP Deactivation

- 1. With the foot brake applied, turn on the engine
- 2. The engine will continue to crank until firing.
- 3. Then press and hold the ESP off button for more than three seconds to switch ESP off.
- 4. The 'ESP off' symbol will be illuminated continuously in the driver information panel and the text 'ESP/ASR off' will display briefly as a reminder that the car is operating without the benefits of ESC.

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Thur 9/30/2010 7:52:33 PM
Subject: Oil Change interval
ELSA MY08 MaintInterval.pdf
owner's manual service interval-.pdf
sebastian.berenz@vw.com

Hello Lynn,

Here is another maintenance interval description of our dealer guideline.
I also attached a scan of missing third page.

So there need to be at least one oil change every three month.

If not let me know.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance

I hope that answers your question.

Enviromental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211

Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

WI-XML Page 1 of 7

MY 2008 Maintenance Intervals - USA

Service at every 5,000 miles or 1 Year after Last Service

Engine oil / Oil filter #Change oil and replace filter.

Service reminder indicator display #Reset display.

Brake system # Check for damage and leaks, thickness of pads, and brake fluid level.

Windshield wiper and washer/headlight washer ∄Ad d fluid if necessary. Check adjustment and function.

Tires and spare wheel #Check for wear and damage . Check tire pressure.

Rotate tires.

Service at 15,000 miles or 1 Year after Last Service

Engine oil / Oil filter

Change oil and replace filter.

Service reminder indicator display #Reset displa y.

Brake system

↑ Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades #Check condition and replace if nec essary.

Windshield wiper and washer / Headlight washer Add fluid if necessary. Check adjustment and function.

Tires and spare wheel β Check for wear and damage. Check tire pressure. Check renewal date of tire repair set (where applicable).

Engine Check fault memory of onfboard diagnosti c system (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).

Cooling system #Check coolant level and add cool ant if necessary.

Exhaust system #Check for damage and leaks.

Underbody #Check for damage and leaks.

Front axle fCheck for excessive play. Check dust seals on ball joints and tie rod ends (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).

Doors #Lubricate door check straps and hood late h (Audi A8 and Audi S8 only).

Rear lid hinges \$\int Lubricate (Audi A8 and Audi S8 only).

Lights Check all lights. Check headlight adjust ment (Audi A8 and Audi S8 only).

Dust and pollen filter ∄Replace filter.

Snow screen for air cleaner

Clean (Audi A4, Aud i A5, Audi S5, and Audi A6 only).

WI-XML Page 2 of 7

Road test #Check braking, kick# down, steering, electrical, heating and ventilation systems, air conditioning, (ASL) Automatic Shift Lock, and power accessories.

Ribbed Vfbelt and tensioner fCheck condition and replace if necessary (Audi RS 4 and Audi R8 only).

Service at 25,000 miles or 1 Year after Last Service

Engine oil / Oil filter fChange oil and replace filter.

Service reminder indicator display #Reset display.

Wiper blades #Check condition and replace if nec essary.

Windshield wiper and washer / Headlight washer ∄ Add fluid if necessary. Check adjustment and function.

Tires and spare wheel #Check for wear and damage . Check tire pressure.

Service at 35,000 miles or 1 Year after Last Service

Engine oil / Oil filter Change oil and replace filter.

Service reminder indicator display ∄Reset displa y.

Brake system \$\mathcal{T}\$ Check for damage and leaks, thickness of pads, and brake fluid level.

Windshield wiper and washer / Headlight washer ♬ Add fluid if necessary. Check adjustment and function.

Tires and spare wheel #Check for wear and damage. Check tire pressure. Check renewal date of tire repair set (where applicable).

Engine Check fault memory of on board diagnostic system (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8)

Cooling system #Check coolant level and add cool ant if necessary.

Engine compartment fCheck for leaks.

Exhaust system #Check for damage and leaks.

Front axle \(\beta \) Check for excessive play. Check dust seals on ball joints and tie rod ends.

Doors #Lubricate door check straps and hood late h.

Rear lid hinges #Lubricate (Audi A8 and Audi S8 only).

Lights Check all lights. Check headlight adjust ment (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).

Dust and pollen filter ∄Replace filter.

Snow screen for air cleaner

Clean (Audi A4, Aud i A5,

WI-XML Page 3 of 7

Audi S5, and Audi A6 only).

Road test #Check braking, kick# down, steering, electrical, heating and ventilation systems, air conditioning, (ASL) Automatic Shift Lock, and power accessories.

Ribbed Vfbelt and tensioner fCheck condition and replace if necessary (Audi RS 4, Audi Q7 3.6L, Audi A8 6.0L, and Audi R8 only).

Spark plugs β Replace \rightarrow Note (Audi A3 3.2L, Audi TT 3.2L, and A8 6.0L only).

Air cleaner Clean the housing and replace the filter element (Audi RS 4 and Audi A8 6.0L only).

Continuously variable transmission (multitronic™)

 Change ATF.

S tronic Change oil and replace filter element (Audi A3 and Audi TT only).

Power steering fluid fCheck fluid level. Add if necessary.

Brake discs 5Check thickness.

Lights Check all lights via instrument cluster. Check license plate light from the rear of the vehicle (Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8 only).

Interior lights Check all interior lights, glov e box compartment illumination, control lights, and MMI (if applicable).

Front sunroof drains (where applicable)

Open sunroof to check front water drain and clean if necessary.

Plenum panel Remove cover for plenum panel to c heck water drains and clean if necessary. (A4, A4 Avant, A4 Cabriolet, S4, S4 Cabriolet, RS4, RS4 Cabriolet, A6, A6 Avant, S6, A8 and S8)

Spark plug replacement at 35,000 miles or 3 years, whichever occurs first. Thereafter every 40,000 miles (60,000 km) or 3 years, whichever occurs first

Service at 45,000 miles or 1 Year after Last Service

Engine oil / Oil Filter

Change oil and replace filter.

Service reminder indicator display ∄Reset displa y.

Brake system

↑ Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades Check condition and replace if nec essary.

Windshield wiper and washer / Headlight washer ♬ Add fluid if necessary. Check adjustment and function.

Tires and spare wheel \sharp Check for wear and damage . Check tire pressure.

Service at 55,000 miles or 1 Year after Last Service

Engine oil / Oil filter #Change oil and replace filter.

Service reminder indicator display ∄Reset displa y.

Brake system \$\mathcal{I}\$ Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades #Check condition and replace if nec essary.

WI-XML Page 4 of 7

Windshield wiper and washer / Headlight washer ♬ Add fluid if necessary. Check adjustment and function.

Tires and spare wheel #Check for wear and damage. Check tire pressure. Check renewal date of tire repair set (where applicable).

Engine Check fault memory of on Doard diagnosti c system (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).

Battery #Check and replace if necessary.

Cooling system #Check coolant level and add cool ant if necessary.

Engine compartment #Check for leaks.

Exhaust system #Check for damage and leaks.

Underbody fCheck for damage and leaks.

Automatic transmission and final drive ∄Check fo r leaks.

Drive shafts #Check boots.

Front axle \(\beta\) Check for excessive play. Check dust seals on ball joints and tie rod ends (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).

Doors #Lubricate door check straps and hood late h (Audi A8 and Audi S8 only)

Rear lid hinges #Lubricate (Audi A8 and Audi S8 only).

Lights fCheck all lights. Check headlight adjust ment (Audi A8 and Audi S8 only).

Dust and pollen filter #Replace filter.

Road test #Check braking, kick# down, steering, electrical, heating and ventilation systems, air conditioning, (ASL) Automatic Shift Lock, and power accessories.

Ribbed V. belt and tensioner . Check condition and replace if necessary (Audi RS 4 and Audi R8 only).

Spark plugs $\mbox{\it fReplace} \rightarrow \mbox{\it Note}$ (except Audi A3 3.2L, Audi TT 3.2L, and Audi A8 6.0L).

Air cleaner

Clean the housing and replace the filter element (except Audi RS 4, Audi Q7 4.2L, and Audi A8 6.0L).

Spark plug replacement at 55,000 miles or 6 years, whichever occurs first. Thereafter every 60,000 miles (90,000 km) or 6 years, whichever occurs first.

Service at 65,000 miles or 1 Year after Last Service

Engine oil / Oil filter #Change oil and replace filter.

Service reminder indicator display ∄Reset displa y.

Brake system f Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades fCheck condition and replace if nec essary.

Windshield wiper and washer / Headlight washer ♬ Add fluid if necessary. Check adjustment and function.

WI-XML Page 5 of 7

Tires and spare wheel #Check for wear and damage . Check tire pressure.

Service at 75,000 miles or 1 Year after Last Service

Engine oil / Oil filter Change oil and replace filter.

Service reminder indicator display #Reset displa y.

Brake system \$\mathcal{I}\$ Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades #Check condition and replace if nec essary.

Windshield wiper and washer / Headlight washer Add fluid if necessary. Check adjustment and function.

Tires and spare wheel β Check for wear and damage. Check tire pressure. Check renewal date of tire repair set (where applicable).

Engine Check fault memory of onfboard diagnosti c system (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).

Battery

Check and replace if necessary.

Cooling system #Check coolant level and add cool ant if necessary.

Engine compartment #Check for leaks.

Underbody #Check for damage and leaks.

Automatic transmission and final drive #Check fo r leaks.

Front axle β Check for excessive play. Check dust seals on ball joints and tie rod ends.

Doors #Lubricate door check straps and hood late h.

Rear lid hinges #Lubricate (Audi A8 and S8 only) .

Lights Check all lights. Check headlight adjust ment (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).

Dust and pollen filter ∄Replace filter.

Snow screen for air cleaner ∄Clean (Audi A4, Aud i A5, Audi S5, and Audi A6 only).

Road test fCheck braking, kickf down, steering, electrical, heating and ventilation systems, air conditioning, (ASL) Automatic Shift Lock, and power accessories.

Ribbed Vfbelt and tensioner fCheck condition and replace if necessary (Audi RS 4, Audi Q7 3.6L, Audi A8 6.0L, and Audi R8 only).

Spark plugs Replace (Audi A3 3.2L, Audi TT 3.2L), and A8 6.0L only).

Air cleaner

Clean the housing and replace filte r element (Audi RS 4, Audi Q7 4.2L, and Audi A8 6.0L only).

Continuously variable transmission (multitronic™) ♬ Change ATF (where applicable).

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S tronic fChange oil and replace filter element (Audi A3 and Audi TT only).

Power steering fluid fCheck fluid level and add if necessary.

Brake discs fCheck thickness.

Lights Check all lights via instrument cluster. Check license plate light from the rear of the vehicle (Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8 only).

Interior lights #Check all interior lights, glov e box compartment illumination, control lights, and MMI (if applicable).

Ribbed Vabelt and Check condition and replace if necessary. Check tension of belt drive with a manual tensioner and retension if necessary (2.0L, 3.2L, 4.2L FSI, and 5.2L engines only).

Ribbed Vfbelt fReplace (Audi S4 only).

Front sunroof drains (where applicable) # Open sunroof to check front water drain and clean if necessary.

Plenum panel Remove cover for plenum panel to c heck water drains and clean if necessary. (A4, A4 Avant, A4 Cabriolet, S4, S4 Cabriolet, RS4, RS4 Cabriolet, A6, A6 Avant, S6, A8 and S8)

Service at 85,000 miles or 1 Year after Last Service

Service reminder indicator display ∄Reset displa y.

Brake system \$\mathcal{I}\$ Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades #Check condition and replace if nec essary.

Windshield wiper and washer / Headlight washer Add fluid if necessary. Check adjustment and function.

Tires and spare wheel #Check for wear and damage . Check tire pressure.

Service at 95,000 miles or 1 Year after Last Service

Engine oil / Oil filter #Change oil and replace filter.

Service reminder indicator display ∄Reset displa y.

Brake system \$\mathcal{T}\$ Check for damage and leaks, thickness of pads, and brake fluid level.

Windshield wiper and washer / Headlight washer ♬ Add fluid if necessary. Check adjustment and function.

Tires and spare wheel β Check for wear and damage. Check tire pressure. Check renewal date of tire repair set (where applicable).

Engine Check fault memory of on Doard diagnostic system (except Audi Q7, Audi TT, Audi A5, Audi S5, and Audi R8).

Battery \(\beta \) Check and replace if necessary.

Cooling system #Check coolant level and add cool ant if necessary.

Engine compartment #Check for leaks.

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Exhaust system #Check for damage and leaks.

Underbody fiCheck for damage and leaks.

Drive shafts #Check boots.

Front axle #Check for excessive play. Check dust seals on ball joints and tie rod ends (except Audi Q7, Au di TT, Audi A5, Audi S5, and Audi R8).

Doors #Lubricate door check straps and hood late h (Audi A8 and Audi S8 only).

Rear lid hinges #Lubricate (Audi A8 and S8 only) .

Lights fCheck all lights. Check headlight adjust ment (Audi A8 and Audi S8 only).

Dust and pollen filter ∄Replace filter.

Road test fCheck braking, kickf down, steering, electrical, heating and ventilation systems, air conditioning, (ASL) Automatic Shift Lock, and power accessories.

Ribbed Vfbelt and tensioner fCheck condition and replace if necessary (Audi RS 4 and Audi R8 only).

Service at 105,000 miles or 1 Year after Last Service

Engine oil / Oil filter

Change oil and replace filter.

Service reminder indicator display #Reset displa y.

Brake system β Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades 5 Check condition and replace if nec essary.

Windshield wiper and washer / Headlight washer Add fluid if necessary. Check adjustment and function.

Tires and spare wheel #Check for wear and damage . Check tire pressure.

Timing Belt Replacement at 110,000 miles - 2.0L Engines Only

Replace timing belt. Check condition of timing be It tensioning system, dampening pulleys, and idler pulleys and replace if necessary (2.0L engines only).

2017-FFP_001614

06/20/2017

Maintenance

Where do I bring my vehicle for service?

Authorized Audi dealers

Audi recommends you take your vehicle only to authorized Audi dealers to ensure that vehicle repairs are performed to the highest specifications. Your authorized Audi dealer has the proper tools and equipment, the staff of trained specialists, and access to the extensive range of parts necessary to properly maintain your vehicle's safety, reliability, and value for years to come.

Audi R8 Service and Repairs

Due to the specialized tools, equipment, and technical training necessary to perform service and repairs on the Audi R8, Audi recommends that all maintenance service and repair work is performed at an authorized Audi dealer with the designation Audi R8 Certified Point or Audi R8 Service Point. Audi will not accept any liability for maintenance service, repair, or any damage resulting from maintenance service or repair performed at a facility that is not an authorized Audi dealer with the designation Audi R8 Certified Point or Audi R8 Service Point.

When do I bring my vehicle in for service?

Service intervals

If you are not sure when you should bring your Audi in for service or which services are to be performed on your vehicle, ask your authorized Audi Service Advisor.

5,000 miles (8,000 km) ^{a)}	Minor Maintenance Service with tire rotation
15,000 miles (25,000 km) ^{b)}	Major Maintenance Service
25,000 miles (40,000 km)	Minor Maintenance Service
35,000 miles (55,000 km)	Major Maintenance Service with additional items
45,000 miles (70,000 km)	Minor Maintenance Service
55,000 miles (85,000 km)	Major Maintenance Service with additional items
65,000 miles (100,000 km)	Minor Maintenance Service
75,000 miles (115,000 km)	Major Maintenance Service with additional items
85,000 miles (130,000 km)	Minor Maintenance Service
95,000 miles (145,000 km)	Major Maintenance Service
105,000 miles (160,000 km)	Minor Maintenance Service
110,000 miles (175,000 km)	Timing Belt Replacement (TT 2.0T front wheel drive and A4 Cabriolet 2.0T only)
125,000 miles (200,000 km)	Minor Maintenance Service with additional item

a) First minor maintenance service at 5,000 miles (8,000 km) or 1 year after delivery, whichever occurs first.

b) First major maintenance service at 15,000 miles (25,000 km) or 1 year after the first minor service, whichever occurs first. Maintenance Services thereafter occur at 10,000 mile (15,000 km) intervals or 1 year from last service, whichever occurs first (alternating between minor and major services).

The intervals shown in this table are based on vehicles operating under normal conditions. In case of severe conditions, such as extremely low temperatures, excessive dust, etc., it is necessary for certain operations to be carried out in between the given intervals. This applies particularly to engine oil changes and the cleaning or replacing of the air cleaner filter element.

Time-sensitive maintenance items

The following maintenance items contain special time-sensitive service intervals (in addition to mileage intervals where applicable).

Service interval by time (and mileage where applicable)	Maintenance item
Every 2 years regardless of mileage (kilometers)	Replace brake fluid (all vehi- cles)
Every 2 years regardless of mileage (kilometers)	Check cloth top function and roll-over protection with cloth top down (Audi A4 Cabriolet and Audi S4 Cabriolet only)
At 3 years or 35,000 miles (55,000 km), whichever occur first. Thereafter every 3 years 40,000 miles (60,000 km), whichever occurs first.	
At 6 years or 55,000 miles (85,000 km), whichever occufirst. Thereafter every 6 year 60,000 miles (90,000 km), whichever occurs first.	



For the sake of the environment

By regularly maintaining your vehicle, you help make sure that emission standards are maintained, thus minimizing adverse effects on the environment.

Maintenance service schedule

Minor Maintenance Service

First at 5,000 miles (8,000 km) or 1 year after delivery, whichever occurs first. Thereafter every 20,000 miles (30,000 km) or two years, whichever occurs first.

Engine oil / Oil filter - Change oil and replace filter.

Service reminder indicator display - Reset display.

Brake system - Check for damage and leaks, thickness of pads, and brake fluid level.

Wiper blades - Check condition and replace if necessary.

Windshield washer and headlight washing system - Add fluid if necessary. Check adjustment and function.

Tires and spare wheel - Check for wear and damage. Check tire pres-

AdBlue fluid - Fill completely with fresh fluid (23 liters). (Audi Q7 3.0L TDI only)

Additional item at 5,000 miles (8,000 km) or 1 year after delivery, whichever occurs first.

Rotate tires

brake fluid level.

TDI only)

Major Maintenance Service

First at 15,000 miles (25,000 km) or two years,

Wiper blades - Check condition and replace if necessary.

Engine oil / Oil filter - Change oil and replace filter.

Service reminder indicator display - Reset display.

necessary. Check adjustment and function.

(30,000 km) or two years, whichever occurs first.

whichever occurs first. Thereafter every 20,000 miles

Brake system - Check for damage and leaks, thickness of pads, and

Windshield washer and headlight washing system - Add fluid if

sure. Check renewal date of tire repair set (where applicable).

Tires and spare wheel - Check for wear and damage. Check tire pres-

AdBlue fluid - Fill completely with fresh fluid (23 liters), (Audi Q7 3.0L

Engine - Check fault memory of on-board diagnostic system (Audi

Cooling system - Check coolant level and add coolant if necessary.

A3, A4 Cabriolet, S4, A6, S6, A8, and S8 only).

Battery - Check and replace if necessary.

Engine compartment - Check for leaks.

Underbody - Check for damage and leaks.

Automatic transmission and final drive - Check for leaks.

Manual transmission and final drive - Check for leaks.

Drive shafts - Check boots.

Front axle - Check for excessive play. Check dust seals on ball joints and tie rod ends (Audi A3, A4 Cabriolet, S4, A6, S6, A8 & S8 only).

Doors - Lubricate door check straps and hood latch (Audi A8 and S8 only).

Rear lid hinges - Lubricate (Audi A8 and S8 only).

Horn - Check function.

Lights - Check all lights. Check headlight adjustment (Audi A8 and S8 only).

Dust and pollen filter - Replace filter.

Snow screen for air cleaner - Clean (Audi A4, A5, S5, and A6 only).

Road test: Check braking, kick-down, steering, electrical, heating and ventilation systems, air conditioning, (ASL) Automatic Shift Lock, and power accessories.

Ribbed V-belt and tensioner - Check condition and replace if necessary (Audi R8 only).

Fuel filter - Remove water (Audi Q7 3.0L TDI only)

Plenum Panel- Clean if dirty (except A3 and Audi Q5)

sary (Au

Air clea A8 6.0L

Haldex

Continu DSG/S ti

only).

Front ax

Brake di

Lights -Cabriole

Lights light fro TT, A5, S

Interior I mination

Doors - I and S8).

Spark pl TFSI, TT:

06/20/2017

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: []
Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 9/30/2010 8:10:08 PM Subject: Re: Oil Change interval

sebastian.berenz@vw.com

Hi, Sebastian.

Thank you. This is very helpful.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 09/30/2010 04:01 PM Subject: Oil Change interval

Hello Lynn,

Here is another maintenance interval description of our dealer guideline. I also attached a scan of missing third page.

So there need to be at least one oil change every three month.

I hope that answers your question.

If not let me know.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road

Auburn Hills, MI 48326 Phone: (248) 754-4211 Cell: (248) 736-3487

FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT! [attachment "ELSA_MY08_MaintInterval.pdf" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "owner's manual service interval-.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: CN=Ben Haynes/OU=AA/O=USEPA/C=US@EPA;CN=David

Bochenek/OU=AA/O=USEPA/C=US@EPA[]; N=David

Bochenek/OU=AA/O=USEPA/C=US@EPA[]

Cc: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]; N=Don

Louwsma/OU=AA/O=USEPA/C=US@EPA[]

Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Fri 10/1/2010 3:46:13 PM

Subject: charger on Bentley

Bentley has requested that a charger be put on their vehicle and I have approved it. The instructions on hooking up a charger are with the vehicle.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 10/4/2010 7:24:26 PM

Subject: Bentley testing

Bob, the Bentley will run some time after noon so tell Sebastion to be here by 12.

Have him call Vince or me when he gets here.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Wed 10/6/2010 3:47:07 PM

Subject: Re: EPA Certificate for Test Group BADXV04.2375

(embedded image)

Sorry, that priority project has flared up again. I asked Steve to look it over today.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 10/06/2010 09:42 AM

Subject: EPA Certificate for Test Group BADXV04.2375

Hello Jim,

If you read this before you check your voice mail, you can ignore the message I left because it is the same subject.

I need to know the status of the EPA Certificate for Test Group BADXV04.2375. We need it as soon as possible.

Cars are built ["	Ex. 4 - CBI	
	LX. 4 - ODI	

LD Certificate Request received - Message

From: Verify Administrator

Subject: LD Certificate Request received

Date: Mon 9/27/2010 3:50 PM

Your recent LD Certificate Request submission has been received by the EPA and you will be notified if any additional actions on your part are required. A Submission Processing Report and any requested dataset reports can be found on the status history page. The status history page can be reached by clicking on the link near the bottom of this Inbox message.

The following is a summary of the processing report:

Total Datasets Submitted: 1 Accepted Datasets: 1 Rejected Datasets: 0

Test Group Name: BADXV04.2375

Transaction Identifier: _a09cc86a-037c-4c70-b008-98e3123ea623

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 10/7/2010 1:12:32 PM

Subject: In-use vehicles scheduled for next week

In-Use Parameters Form.xls

Hi, Sebastian.

04(p)?)

pictures for:

Listed below is the information for the vehicles that we have scheduled for next week.

N001RXX-0055C (2008 Audi/A6) - **Ex. 6** 1000 vehicle pick up on 10/13/10 (Wednesday)

N001RXX-0018C (2008 Audi/A4) - **Ex. 6** 0830 vehicle pick up on 10/14/10 (Thursday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary,

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 10/7/2010 1:58:33 PM

Subject: RE: EPA's Confirmatory Maintenance Form

N001 maintenance before FTP.doc

FilterReplaceProc.pdf
FluidCapacity.pdf
OilFilterAssem.pdf
OilLevelCheck.pdf

Hi, Sebastian.

We noticed that the pressure for the radiator cap is higher than that for the radiator system. This is the opposite of what we usually see because most manufacturers want the radiator to release pressure before the radiator system. I just wanted to confirm that this is correct.

Thanks.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 09/22/2010 09:35 AM

Subject: RE: EPA's Confirmatory Maintenance Form

Hello Lynn,

Attached you will find your questionnaire with my added details.

Further I have attached a description for the oil change, specifications for the oil and coolant and how to change the filter.

Let me know if you have any questions on this or need something additionally.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc.

3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211

Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, September 22, 2010 8:26 AM

To: Berenz, Sebastian

Subject: Fw: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

I will need the information for the maintenance very soon. Also, I need to know what the maintenance schedule says regarding oil changes. Do you have a copy of the page from the owner's manual that you can send me?

Thanks.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

---- Forwarded by Lynn Sohacki/AA/USEPA/US on 09/22/2010 08:24 AM ----

From: Lynn Sohacki/AA/USEPA/US

To: "Berenz, Sebastian" < Sebastian. Berenz@vw.com>

Date: 08/25/2010 04:20 PM

Subject: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

Attached is the form that we use during maintenances for vehicles in a confirmatory class. There are a few items that I need you to provide.

I've indicated those things in red. Please fill in the blanks and return the file to me. Please also let me know if you have any questions.

In case you are interested in seeing the telephone questionnaire, I've attached that as well.

Thanks,

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

(See attached file: N001c-002c TELEPHONE QUESTIONNAIRE.doc)(See attached

file: N001 maintenance before FTP.doc)

8ADXV03.1374

Confirmatory Class #:N001c/N002cRXX-____

IN-USE TESTING MAINTENANCE BEFORE FTP

VEHICLE	E CONTROL #	VIN_			
VEHICLE	E MODEL	ENGINI	E FAMILY		
ENGINE (CODE/CALIBRATION		TRANSMISSI	ON	
ODOMET	ER	EVAP FAM	(Speeds if-M/	1)	
DATE		TIME	FI T	JEL YPE	
NOTE: If	any of the following items	are not applicab	le to the vehicle	being inspected, man	rk N/A.
1. Record	the following information: a. Vehicle build date				
	b. Actual tire sizes Left F	ront	Right Fron	nt	
	Left R	ear	Right Rea	ır	
	c. GWR Front	Rear	e. COLO	R: Exterior	_
	d. Recall campaign sticke	r / YES	/ /NO	Interior	_
	Recall campaign numb	er from sticker			
	None found				
nozzle to o	the fuel filler neck for the predetermine if restrictor is opeon ok damaged, describe not present	resence of, and/orational.	Ū		
REJECT I	F RESTRICTOR IS DAMA	GED OR LEAI	DED NOZZLE	FITS INTO FUEL F	ILLER NECK
3. Remove	e a sample of fuel from the t	ank and deliver	to chem. lab for	r analysis	
4. Determ	ine the axle ratio; make 10 v	wheel revolution	s (applicable to	rear-drive only).	
	(no. of driveshaft revol	utions X2) =	X2	2 =	_
	(no. of wheel revolutio	ns)	10		
	ALL THE ABOV	TE ITEMS HAVE BEE	EN PERFORMED		
MECHANIC		PRESENTATIVE	EPA REPRESENTA	TIVE	

	2008 Audi A4 and A6 8ADXV03.1	Confirmatory Class #:N001c/N002cRXX
5.	Check brakes for excessive drag. Adjust if	necessary.
	brake drag ok	
	excessive brake drag (adjust	ed)
6.	Inspect catalyst body, if so equipped, for disevidence of plug removal.	coloration, signs of damage, bulges, burn-out or
	catalyst ok	
	other (describe)	
7.	Record the following part numbers.	
	Catalyst	PROM
	TPS Sensor	PCV valve
	Throttle body	ECM (computer)
	O2 Sensor	EGR valve
8.	maintenance:	des in vehicle's computer system at beginning of EPA
	b. Readiness Tests	
	Catalyst	Evap SystemO2 Sensor
	O2 Sensor Heater	EGR system
	c. At the time during the maintenance, is the	MIL on?
9.	a. Check cooling system, both radiator and a necessary.	reservoir (if applicable) for coolant and fill if
	Reservoir	
	level ok level low	coolant added (amount)
	ALL THE ABOVE ITEMS HAVE I	
MECHAN	MANUFACTURER REPRESENTATIVE	EPA REPRESENTATIVE

3 of 14	2008 Audi A4	and A6 8ADXV	/03.1374	Confirmatory C	lass #:N001c/N002cRXX	ζ
	Radiator	level ok				
		level ok level low	coolan	t added	(amount)	
		nt condition, replace if				
		coolant cond coolant cond coolant repla	lition poor, (sp	pecify)		
		following pressure cheor cap pressure check; 1		ed: <u>(need pre</u>	ssure) bar	
	<u>vw:</u>	1.4 1.6 20.323.				
		no leakage				
		cap leaks				
		cap does not re	elease pressure	2		
		cap replaced				
	Radiator	pressure check; pressu	re applied:(need pressure)_	bar	
	<u>vw:</u>	1.0 bar 14.5 psi				
		no leakage				
		hoses and clar	mps ok			
		radiator leaks	3			
		leakage repair	red			
	d. freeze protec	tion level	_			
	TBD sp	ec =## degrees at #	##% mixure _a	adjusted to		
<u>VW:</u>	ant (40 9/) and w	ator (CO 9/) for townsore	tura daum ta	2E °C /		
13F.		ater (60 %) for temperat				
		ALL THE ABOVE ITEMS H	HAVE BEEN PERFO	DRMED		
MECHAN	IC MAN	/ NUFACTURER REPRESENTA	ATIVE EPA REI	PRESENTATIVE		

Check drive belts. Replace if cracked, frayed, glazed or excessively worn. Adjust if loose	4 2008 Audi A4 and A6 8ADXV03.1374 Confirmatory Class #:N001c/N002cRXX
belt (s) ok belt (s) adjusted or replaced, specify Visually inspect battery for electrolyte level. If level is low add distilled water. level ok level low Water added / / Maintenance free battery (if equipped with an indicator, record observation). Check the power steering fluid and add if necessary not applicable level low	olant (60 %) and water (40 %) for temperature down to -40 °C/ - F.
belt (s) ok belt (s) adjusted or replaced, specify Visually inspect battery for electrolyte level. If level is low add distilled water. level ok level low Water added / / Maintenance free battery (if equipped with an indicator, record observation). Check the power steering fluid and add if necessary not applicable level low level low level ok fluid added (amount) Visually inspect the vehicle for: a. Signs of obvious tampering none found yes b. Fuel system plug (s). Plug location: all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe Sticking, binding, etc.; describe	
Visually inspect battery for electrolyte level. If level is low add distilled water.	Check drive belts. Replace if cracked, frayed, glazed or excessively worn. Adjust if loose
Visually inspect battery for electrolyte level. If level is low add distilled water.	belt (s) ok
level oklevel lowWater added / / Maintenance free battery (if equipped with an indicator, record observation). Check the power steering fluid and add if necessarynot applicablelevel lowlevel lowlevel oklevel lowlevel oklevel low	belt (s) adjusted or replaced, specify
level oklevel low	
Check the power steering fluid and add if necessary.	
Check the power steering fluid and add if necessary. not applicable level low level ok fluid added (amount) Visually inspect the vehicle for: a. Signs of obvious tampering. none found yes be Fuel system plug (s). Plug location: all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE HEMS HAVE BEEN PERFORMED	level oklevel low Water added
not applicablelevel low fluid added (amount) Visually inspect the vehicle for: a. Signs of obvious tampering. none foundyes Describe b. Fuel system plug (s). Plug location:all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.: describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	/ / Maintenance free battery (if equipped with an indicator, record observation).
not applicablelevel low fluid added (amount) Visually inspect the vehicle for: a. Signs of obvious tampering. none foundyes Describe b. Fuel system plug (s). Plug location:all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.: describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	
not applicablelevel low fluid added (amount) Visually inspect the vehicle for: a. Signs of obvious tampering. none foundyes Describe b. Fuel system plug (s). Plug location:all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.: describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	Check the power steering fluid and add if necessary
Visually inspect the vehicle for: a. Signs of obvious tampering. none foundyes	not applicable level low
a. Signs of obvious tampering. none foundyes Describe b. Fuel system plug (s). Plug location:all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	level ok fluid added (amount)
none foundyes Describe b. Fuel system plug (s). Plug location:all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	Visually inspect the vehicle for:
b. Fuel system plug (s). Plug location: all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	a. Signs of obvious tampering.
b. Fuel system plug (s). Plug location: all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	none found yes
all present and intact plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	Describe
plug (s) missing; Describe Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	b. Fuel system plug (s). Plug location:
Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	all present and intact
Check all fuel system linkages for free operation. (throttle linkages.) Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	plug (s) missing; Describe
Free operation Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	
Sticking, binding, etc.; describe ALL THE ABOVE ITEMS HAVE BEEN PERFORMED	Check all fuel system linkages for free operation. (throttle linkages.)
	Free operation
	Sticking, binding, etc.; describe

for

	Repaired, describe
	the condition of the hoses of the following systems for cuts, cracks, or hardening. Check trouting of hoses. Check function where indicated, repair if appropriate.
a.	Air cleaner hoses. correctly routed, ok condition air cleaner door functional not ok, specify
	repaired or replaced, describe
b.	Spark timing control hoses.
	correctly routed, ok condition
	not ok, specify
	repaired or replaced, describe
c.	Crankcase emission control hoses.
	correctly routed, ok condition
	air moves through PCV system
	not ok, specify
	repaired or replaced, describe
d.	EGR system hoses.
	correctly routed, ok condition
	rpm required for movement rpm
	not ok, specify
	repaired or replace, describe
e.	Evaporative emission system hoses.
	correctly routed, ok condition, vent and purge functions OK ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

6 of 14	2008	3 Audi A4 and	A6	8ADXV03.1374	Confirmatory Class #:N001c/N002cRXX
			no ok, s	pecify	
			repaired	or replaced, describe	e
	f.	Air injection s			
			not appli	cable	
				routed, ok condition	1
					>
			•	1	

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

	/	
MECHANIC	MANUFACTURER REPRESENTATIVE	EPA REPRESENTATIVE

7 of 14	2008 Audi A4 and A		Confirmatory Class #:N001c/N002cRXX
	g. Speed control	•	
	/ / O.E. system	/ / non-O.E. system	/ / not applicable
	For O.E. syste	m: ectly routed, ok condition	
	not	ok, specify	
	repa	ired or replaced, describe	
	For non-O.E. s	ystem:	
	/ / System di	sconnected at throttle	
	h. List problems	found with any other vacuum	h hoses.
	no	other problems found	
.6. St	art engine	Time	
	ngine warm ehicles equipped with	Time an electric cooling fan shou	
		rates YES / / NO /	with an electric cooling fan
	·	nsmission fluid level and add	
	not applical		level low
	level ok		fluid added
	ALL	THE ABOVE ITEMS HAVE BEEN PE	RFORMED
MECHANIO	C MANUFACT	TURER REPRESENTATIVE EPA	REPRESENTATIVE

18. Che	eck electrical	wiring for prop		and integrity	•	s #:N001c/N002cRX plenoid, ignition and	
	W	riring ok					
	n	ot ok, specify _					
	re	epaired or repla	aced, describe				
19 Ex	haust System						
19. 12.	·		olugged in exhau	st system			
		Not applical		·			
			n for leaks with	engine runni	ing.		
		_ No leaks					
		_ System leak	s; location				
		Leaks repai	red; describe				
Spe	the plug(s) re		ber	to determine	e if plug is O.E.	Record the informa	tion for
b. Cor	Check comp	ression ec please pro		n engine spe	ed of 250 rpm o	r more)	
	<u>vw:</u>		new 11.0 14 min. 10 bar	.0 bar			
	differ	ence between	cylinder max. 3	.0 bar			
	1 2	Brand	Part No.	Gap	Condition	Compression	
	3	ALL THE A	BOVE ITEMS HAVE E	BEEN PERFORM	— ———— ÆD		
MECHAN	IC	MANUFACTURER	/	EPA REPRE	/ SENTATIVE		

9 of 14 2008 Audi A4 and A 5 6						.XX
If actual plugs are non-O.E.,	are they equival	ent to O.E.?				
yes	no	Unkr	nown	_ Not Appl	icable	
Replace <u>ALL</u> plugs with O.I	E. plugs.					
List brand and type of nev	v plugs installed	:				
21. Check valve clearances (i SHOW THAT ROCKER			BEEN REMOV			CORDS
Spec:			Spec:			
Intake		(Other)				
Exhaust						
As Received: Intake Exhaust Other Set to: Intake	2	3	4 5	6	7	8
Exhaust Other						
22. Check the following to de found to be excessive parts for which remo	ely worn, or dirt	y, or fouled,	or if parts are no			
	O.E. NON.		OT PPL. COND	OITION	MAINTENA	NCE
ALL	THE ABOVE ITEMS			TIION	IVICALIN I CINP	MULL
MECHANIC MANUFAC		ATIVE EPA				

	2008 Audi A4 and A6 a. air filter	8ADXV03.1374 Confirmatory Class #:N001c/N002cRXX
		commended air cleaner filter is:
	b. oil filter	
	c. fuel filter	
	d. ignition wires	
	e. distributor cap	
	f. distributor rotor	
	g. PCV valve	
	h. PCV filter	
	i. air conditioner	
	j. fuel filler cap	
	maintenance No	on-O.E. parts found in the visual check and their condition and ne Non-O.Ecommended air cleaner filter is: What is the recommended air cleaner?
	<u>vw:</u>	for AUDI A6: 4F0 133 843 For AUDI A4: 06C 133 843
23. a. Ch	neck oil level.	
	oil level ok	oil level below ½ qt.
b. F	Replace oil and filter as re #W## GF# oil; en	commended by manufacturer: gine oil filter:
	<u>vw:</u>	<u>VW 50200 oil</u> 5W40 5W30
		0W40
	oil an	0W40 d oil filter replaced
24. <u>For I</u>	oil an LDTs only (#24 and #25)	d oil filter replaced
24. <u>For I</u>		d oil filter replaced

11 of 14	2008 Audi A4 and A6 8ADXV03.1374 Confirmatory Class #:N001c/N002cRXX
	Do only if the truck has over miles or is over months old.
	Is the EGR maintenance light on? Yes No
	If the EGR light is on and the maintenance has not been performed previously by the owner (from the owner's records), perform the following:
25. Verify	y if O2 maintenance has been performed (from owner's records)
	Yes No
	If yes, when?
If O2 mai	ntenance has not been performed, perform the following:
	Additional maintenance items to be performed:
26. St	art engine Time
Eı	ngine warm Time
27. Pr	reparation for parameter set.
	engine at normal operating temperature
	accessory equipment off
	M THE FOLLOWING CHECKS AND ADJUSTMENTS ACCORDING TO THE DURES AND INSTRUCTIONS SPECIFIED ON THE EMISSION LABEL AND/OR THE SHOP L.
28.	Check idle ignition timing and adjust if necessary.
ge	ar setting
as	received at rpm
spo	ec.* at rpm ALL THE ABOVE ITEMS HAVE BEEN PERFORMED
MECHANIC	MANUFACTURER REPRESENTATIVE EPA REPRESENTATIVE

12 of 1	4	2008 Audi <i>A</i>	A4 and A6	8ADXV0	3.1374	Confirma	tory Class #	#:N001c/N002cRXX
	set t	o			at			rpm
		;	*See VECI labe	el and/or sho	p manua	1.		•
29.	Che	eck and adju	st, if necessary	, the idle spe	eed(s) set	ttings.		
			tment plugs pre spec. see VECI				'A	
	a.	Curb idle sp			observ	vod		ram
		gear settin	g		OUSCIV			rpm
		spec.*		rpm	set to			_ rpm
		*See VI	ECI label and/o	r shop manu	ıal			
	b. '	TPS output	voltage. (Curb	idle speed)				
	(observed _		vdc	;			
	;	Spec						
30.	Lis	t any comme	ents relevant to	the inspecti	on perfor	rmed on this	vehicle:	
31.	Rec		Codes (after N	,				
32.			cial procedures ares attached?	to this form Y/N				
Tim	ne co	ompleted						
Date	e _							
Sign	natu	re of mechan	nic and observe	ers:				
		MECHA	ANIC			-		
		EPA RE	EPRESENTAT	IVE				
			ALL THE ABOV					
MECHAN	NIC	MA	NUFACTURER RE	PRESENTATIV	E EPA I	REPRESENTATI	IVE .	

VW FOIA, EPA 06/20/2017 2017-FFP_001638

MANUFACTURER REPRESENTATIVE _____

ALL THE ABOVE ITEMS HAVE BEEN PERFORMED

MANUFACTURER REPRESENTATIVE EPA REPRESENTATIVE MECHANIC

VW FOIA, EPA 06/20/2017 2017-FFP_001639

4 of 14 2008 Comments:	Audi A4 and A6	8ADXV03.1374	Confirmatory Class #:N001c/N002cRXX-
_			
-			
			_
	ALL THE ABO	OVE ITEMS HAVE BEEN PEI	RFORMED
TCW 1 200			/
ECHANIC	MANUFACIUKEK N	REPRESENTATIVE EPA 1	REPRESENTATIVE

VW FOIA, EPA 06/20/2017 2017-FFP_001640

WI-XML Page 1 of 10

Engine Oil, Draining and Replacing Oil Filter



/ WARNING

Oil extraction not permitted with various engine ty pes!

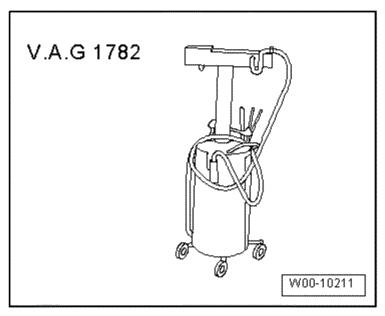


Note

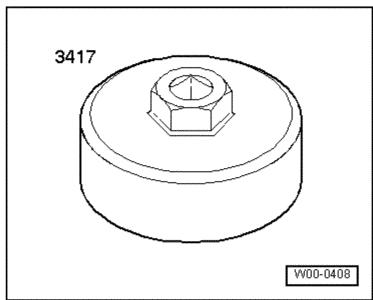
Perform oil change at operating temperature.

Special tools and workshop equipment required

Oil Extractor 1782 Tension Band □2171 □1 □



Oil Filter Key 3417□



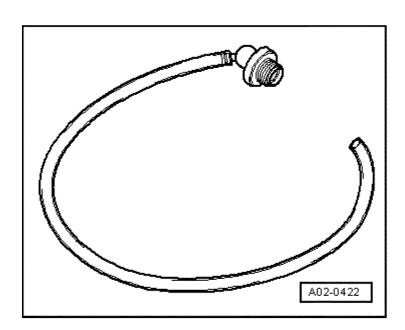
Oil Drain Adapter ☐ 40057 ☐ (2.0 TFSI)



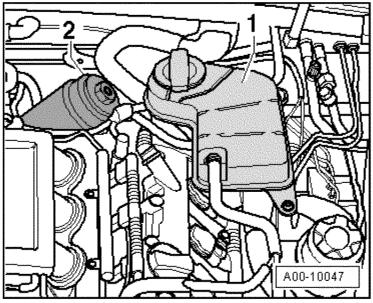
WI-XML Page 2 of 10

Observe waste disposal regulations!

V6 3.0L TFSI and 3.2L FSI



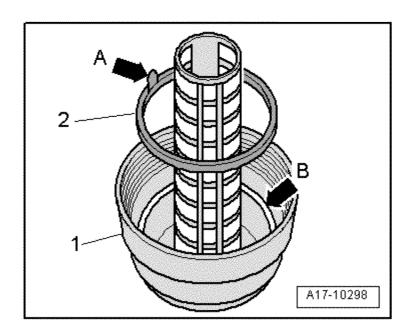
- Remove coolant reservoir ☐ □and lay aside.
- Remove oil filter cover with SW 36 □2 □
- Clean sealing surfaces oil filter cover and at oil filter housing.
- Replace oil filter insert.



Sealing ring on cap, replacing

- Remove sealing ring at pull tab □ arrow A⊟from cap ቯ □
- Insert new sealing ring □2□with semicircular profile in groove arrow B⊡on cap.
- The pull tab ⊡arrow A □ must face upward.
- Smooth side of sealing ring □2□ must face toward outside

WI-XML Page 3 of 10



O-ring, inserting in oil filter housing

Insert Oring 12 in groove □ arrow□on oil filter housing 🛛 🗆



Observe waste disposal regulations!

- Engage new oil filter insert in oil filter cover.
- Install oil filter cover □3□
- Install coolant reservoir.
- Remove noise insulation. Refer to → Chapter "Noise Insulation, Removing"
- Open oil drain plug on oil pan or extract engine oil.
- Install oil drain plug.



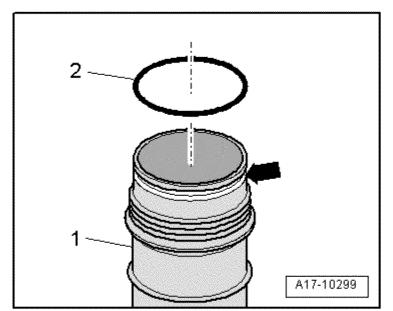
Note

Oil drain plug is installed without seal.

Check for cleanliness.

Tightening Specifications	Nm
Oil filter cover	25
Oil drain plug on oil pan	30

Fill motor oil. Refer to → Chapter "Engine Oil, Filling"



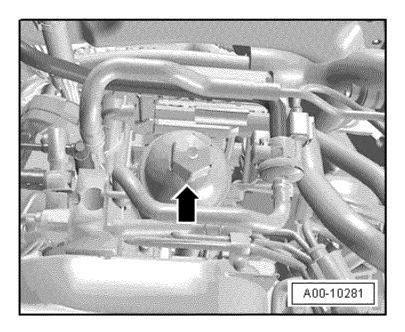
WI-XML Page 4 of 10

For oil specifications and capacities, refer to

→ Fluid Capacity Tables; Rep. Gr.03;

V8 BVJ

- Remove the oil filter cover with a Socket Wrench SW 32 arrow
- Clean sealing surfaces oil filter cover and at oil filter housing.



 Replace Orings 2□and 4□and filter component 3



Note

By removing the filter element, a valve is opened that allows the oil in the filter housing to flow automatically back into the crankcase.

Observe installation position of tab on oil filter.

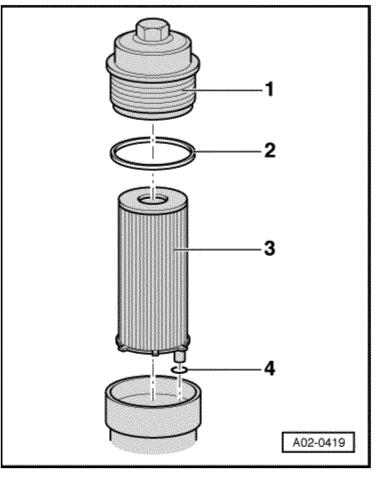
Observe waste disposal regulations!

- Insert new oil filter in filter housing
- Install new O ring 2 and lubricate lightly.
- Install oil filter cover □ □
- Remove noise insulation. Refer to → Chapter "Noise Insulation, Removing"
- Open oil drain plug on oil pan or extract engine oil.
- Install oil drain plug.



Note

Install oil drain plug with new gasket.



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Check for cleanliness.

Tightening Specifications	Nm
Oil filter cover	25
Oil drain plug on oil pan	25

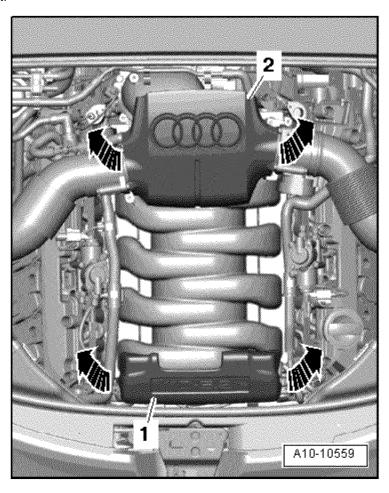
Fill motor oil. Refer to → Chapter "Engine Oil, Filling".

For oil specifications and capacities, refer to

→ Fluid Capacity Tables; Rep. Gr.03;

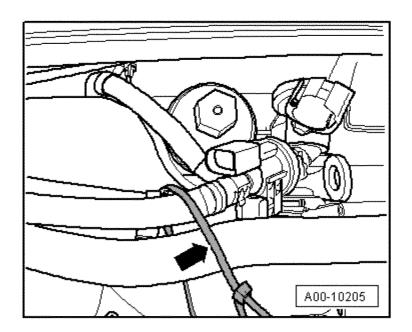
5.2L FSI

- Remove noise insulation. Refer to \rightarrow Chapter "Noise Insulation, Removing"
- Open oil drain plug and drain engine oil.
- Install oil drain plug with new gasket.
- Remove rear engine cover □2 □□ arrows.
- Remove EVAP valve from bracket and lay aside.



- Secure EVAP line, permanent ventilation line and sound pipe line at front with cable ties.

WI-XML Page 6 of 10



- Loosen cover ☐ □AF 32.
- Remove filter component □3□
- Replace O rings 2 and 4 and filter element 3

Observe installation position of tab on oil filter.

- Fill with engine oil.

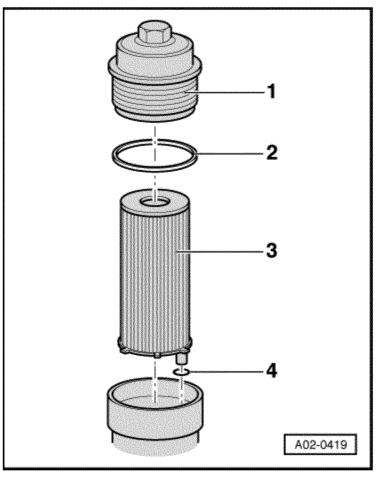
For oil specifications and capacities, refer to

→ Fluid Capacity Tables; Rep. Gr.03;



Note

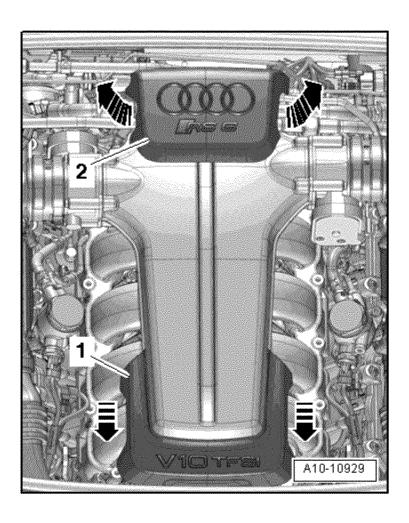
Observe waste disposal regulations!



Tightening Specifications	Nm
Oil filter cover	25
Oil drain plug	25

WI-XML Page 7 of 10

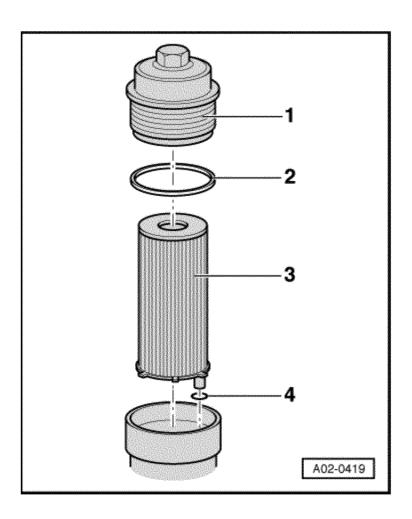
V10 TFSI, RS 6



- Remove rear engine cover □2□ toward the rear arrows.
- Free up the oil filter housing cover $\hfill\Box$ 1 🗆
- Loosen cover ☐ □AF 32.
- Remove filter component ₃□
- Replace Orings ☑ and ☑ and filter element ☑ □

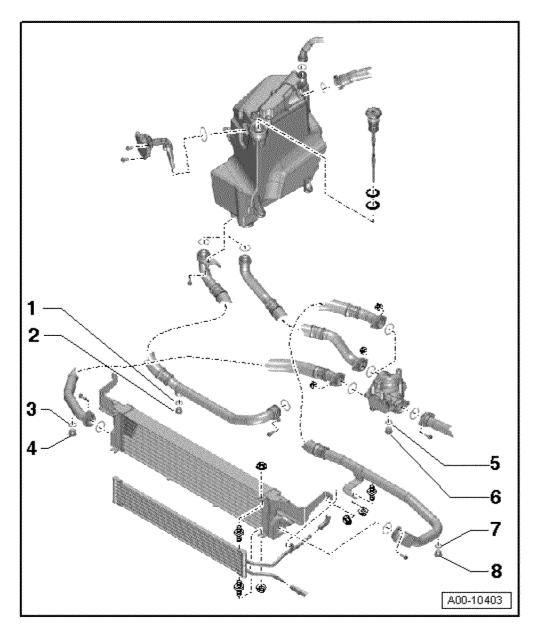
Observe installation position of tab on oil filter.

WI-XML Page 8 of 10



- Remove noise insulation. Refer to \rightarrow Chapter "Noise Însulation, Removing"

WI-XML Page 9 of 10



- Open the oil drain plugs 2, 4, 6 and 8 and drain the oil.
- Open oil drain plug ☐arrow☐and drain engine oil.
- Install the oil drain plug with a new gasket.
- Remove any remaining oil the oil pan using an oil extractor ☐782□



Note

The number of oil drain plugs will vary between 2 (only on the oil pipes) and 5 depending on the vehicle and engine versions.

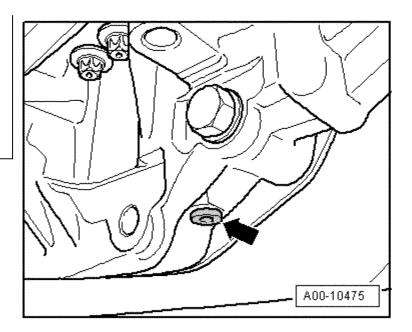
WI-XML Page 10 of 10



WARNING

Pay attention to the tightening specifications.

Always pay attention to the instructions when filling the engine oil. Refer to \rightarrow Chapter "Engine Oil Filling, RS 6".



Tightening Specifications	Nm
Oil filter cover	25
Thermostat housing drain plug	25
Drain plugs on the oil tubes	40
Drain plug on the control housing	12 +/□0.5

 Fill the engine oil. Refer to → Chapter "Engine Oil Filling, RS 6"

For oil specifications and capacities, refer to

→ Fluid Capacity Tables; Rep. Gr.03;



Note

Observe waste disposal regulations!

WI-XML Page 1 of 2

Audi A6/S6



/ Caution

All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.

Refer to Technical Bulletin 2010043 for engine oils meeting the required Audi oil quality standards.

Part numbers are for reference only. Always check with your parts department for the latest informati on.

Component/System		Capacity	Part Number/Specification
3.2 L Engine			
	Oil and Filter Change	6.5 L (6.9 qt.)	VW 502 00
	Coolant	9.6 L (10.1 qt.)	G 012 A8G
4.2 L Engine			
	Oil and Filter Change	9.1 L (9.6 qt.)	VW 502 00
	Coolant	12.0 L (12.7 qt.)	G 012 A8G
5.2 L Engine	•		
	Oil and Filter Change	10.0 L (10.6 qt.)	VW 502 00
	Coolant	15.0 L (16.0 qt.)	G 012 A8G
Continuously Variable Transmission 01J			
	Initial Fill	7.5 L (7.9 qt.)	
	Refill	4.5 - 5.0 L (4.8 - 5.3 qt.)	G 052 180 A2
	Front Final Drive	1.3 L (1.4 qt.)	G 052 190 A2
6 Speed Automatic Transmission 09L			
	Initial Fill	9.8 L (10.3 qt.)	G 060 162 A2
	Refill	8.0 L (8.5 qt.)	0 000 102 A2

WI-XML Page 2 of 2

	Front Final Drive	1.1 L (1.2 qt.)	G 052 145 S2
	Transfer Case	0.6 L (0.6 qt.)	G 055 145 A2
	Rear Final Drive - 0AR	0.9 L (1.0 qt.)	G 052 145 S2
	Rear Final Drive - 01R	1.5 L (1.6 qt.)	G 052 145 52
6 Speed Automatic Transmission 09E			
	Initial Fill	10.4 L (11.0 qt.)	G 055 005 A2
	Refill	10.0 L (10.6 qt.)	G 000 000 A2
	Front Final Drive	1.1 L (1.2 qt.)	
	Transfer Case	1.2 L (1.3 qt.)	G 055 145 S2
	Rear Final Drive - 0AR	0.9 L (1.0 qt.)	G 055 145 52
	Rear Final Drive - 01R	1.5 L (1.6 qt.)	
Brake System			
	-	1.0 L (1.1 qt.)	G 000 750
A/C System			
	Refrigerant	530 ± 20 g (18.7 ± 0.7 oz.)	See ETKA
	PAG Oil	130 ± 10 cc (4.4 ± 0.3 fl. oz.)	G 052 300 A2
Window/Headlamp Washer System			
	-	4.8 L (5.1 qt.)	G 052 164

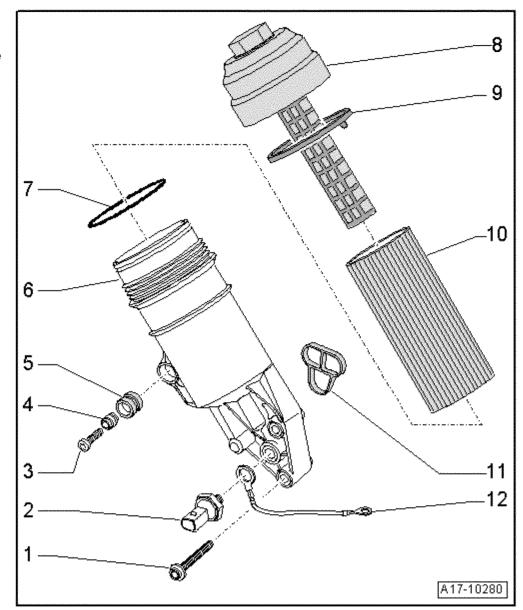
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WI-XML Page 1 of 4

Oil Filter Housing Assembly Overview

Vehicles through 04.2005

- 1 13 Nm
- 2 Oil pressure switch -F1-



Black insulation

checking → Chapter "Oil Pressure, Checking"

Removing and installing \rightarrow Chapter

Tighten to 20 Nm.

- 3 13 Nm
- 4 Sleeve
- 5 Rubber grommet
- 6 Oil filter housing

WI-XML Page 2 of 4

> with filter by&pass valve 3.0 bar with oil check valve Oil check valve cannot be replaced Removing and installing \rightarrow Chapter

7 - O-ring

Replace inserting \rightarrow Fig.

8 - Cover - 25 Nm

9 - Seal

Replace

Removing and installing \rightarrow Fig.

10 - Oil filter element

Removing and installing

→ Booklet405

11 - Gasket

Replace

12 - Seal with ground (GND) wire

Replace

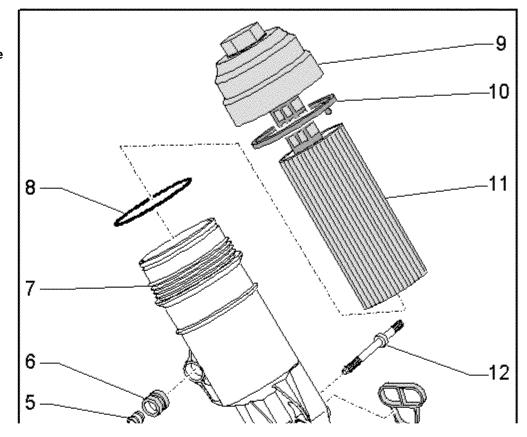
Vehicles from 05.2005

2 - Oil pressure

switch -

1 - 13 Nm

F1-



WI-XML Page 3 of 4

Tighten to 20 Nm.

Black insulation

Removing and installing, refer to → Chapter "Oil Pressure Switch"

Checking → Chapter "Oil Pressure, Checking"

3 - Multi-point socket head union nut - 13 Nm

- 4 13 Nm
- 5 Sleeve
- 6 Rubber grommet

7 - Oil filter housing

With filter by&pass valve 3.0 bar

With oil check valve

Oil check valve cannot be replaced

8 - O-ring

Inserting, refer to → Fig. "O&ring, Inserting on Oil Filter Housing"

9 - Cover - 25 Nm

10 - Seal

Replace

Removing and installing, refer to → Fig. "Sealing Ring on Cap, Replacing"

11 - Oil filter element

Removing and installing, refer to

→ Booklet405

12 - Stud bolt - 16 Nm

13 - Gasket

Replace

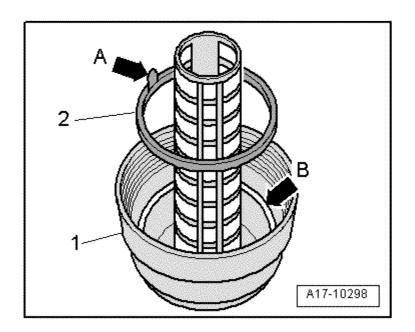
14 - Seal with Ground (GND) wire

Replace

Sealing Ring on Cap, Replacing

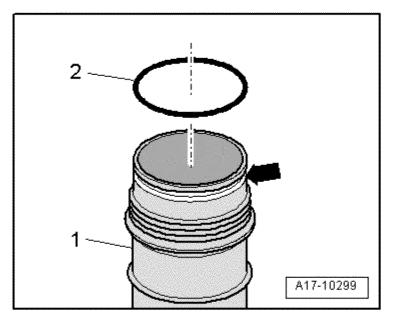
- Remove sealing ring &2& at pull tab & arrow A& from cap & 1&.
- Insert new sealing ring with semicircular profile in groove & arrow B&on cap.
- The pull tab & arrow A& must face up.

WI-XML Page 4 of 4



O-ring, Inserting on Oil Filter Housing

Insert O&ring &2& in groove & arrow& on oil filter housing &1&.



WI-XML Page 1 of 2

Engine, Checking Oil Level



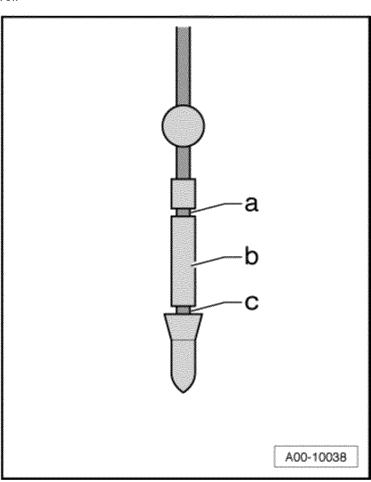
Minimum engine oil temperature 140°F (60°C).

Vehicle must be in level position.

After stopping engine, wait a few minutes to allow oil to flow back into oil pan.

- Pull out oil dipstick and wipe with clean rag. R eplace dipstick and push down to stop.
- Pull out dipstick again and read oil level.

Markings on dipstick:



- a Oil must not be topped off.
- b Oil can be topped off. This will cause the oil level to be in area
- c Oil must be topped off. It is sufficient when oil level is in area -b- (grooved field).



NOTE

Oil level must not exceed -a- mark on dipstick.

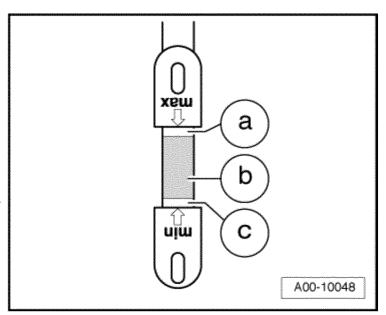
WI-XML Page 2 of 2

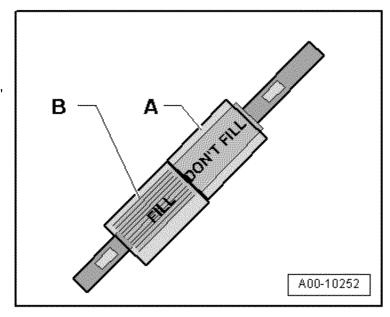
Checking Engine Oil Level, RS 6

- Follow these steps in sequential order.
- Place the vehicle in a horizontal position.
- Let the engine warm at different RPMs less than 2,500 RPM until the engine oil reaches a temperature of approximately 212 to 230 °F (100 to 110 °C) according to the instrument cluster. Refer to Owners Manual.
- Let the engine run in idle for 3 minutes.
- Switch off the engine and let the oil drain down for two minutes; then check the oil level within 10 minutes.
- Add engine oil if necessary.
- Oil level in the "B" range add
- Filling capacity approximately 1
- The oil level can be within the "A" range.



Add oil until the oil level is 5 mm below the upper edge of the "Do not Fill" range.





To: christoph.kohnen@vw.com;richard.thomas@vw.com;CN=Jim

Snyder/OU=AA/O=USEPA/C=US@EPA[]; ichard.thomas@vw.com;CN=Jim

Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]

Cc: john.finneran@nhtsa.dot.gov;CN=David

Good/OU=AA/O=USEPA/C=US@EPA;CN=Jeff

Alson/OU=AA/O=USEPA/C=US@EPA;alan.berkowitz@nhtsa.dot.gov;CN=Ben

Ellies/OU=AA/O=USEPA/C=US@EPA;Harry.Thompson@dot.gov;terry.anderson@dot.gov;CN=R obert Peavyhouse/OU=AA/O=USEPA/C=US@EPA;CN=Aaron

Hula/OU=AA/O=USEPA/C=US@EPA[]; N=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Jeff Alson/OU=AA/O=USEPA/C=US@EPA;alan.berkowitz@nhtsa.dot.gov;CN=Ben

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From: CN=David Good/OU=AA/O=USEPA/C=US

Sent: Thur 10/7/2010 4:09:41 PM

Subject: EPA CAFE letter & calculation attached - 2009 Volkswagen IP. LT

2009-0590-LT-CAFE-V127.pdf 2009-0590-IP-CAFE-V127.pdf

This e-mail message forwards a signed EPA letter and Corporate Average Fuel Economy (CAFE) calculation to your office.

CONFIDENTIALITY: The cover letter and the summary information on the "CAFE report" page are not confidential. However, the information included in the calculation section of the attached PDF file contain sales information in more detail than is normally available to competitors and to the general public. Release of the calculation section of this PDF file is not authorized.

This e-mail and the Adobe Acrobat (.pdf) attachment are an official Agency action. If there is a problem with the attachment or if you are not the intended recipient, please contact your certification team representative immediately. Adobe Acrobat Reader version 5.0 or later is required to open the attached PDF document(s).

To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Berenz, Sebastian" **Sent:** Fri 10/8/2010 2:11:28 PM

Subject: RE: EPA's Confirmatory Maintenance Form

In-Use Parameters Form N001RXX-0043c-WAUAH78E18A040709.pdf

3.2CoolLeakCheck.pdf

Hello Lynn,

Attached is an update to the N001RXX-0043c car data.

The tank capacity is updated.

To answer your question concerning the radiator system:

Attached is the RM document for checking cooling system leaks. The purpose of the test performed at EPA are to verify that the cooling system is properly sealed and functioning per manufactures specs. This procedure does that.

If you have further questions on that please contact me.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road

Auburn Hills, MI 48326 Phone: (248) 754-4211 Cell: (248) 736-3487

FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, October 07, 2010 9:59 AM

To: Berenz, Sebastian

Subject: RE: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

We noticed that the pressure for the radiator cap is higher than that for the radiator system. This is the opposite of what we usually see because most manufacturers want the radiator to release pressure before the radiator system. I just wanted to confirm that this is correct.

1

Thanks.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 09/22/2010 09:35 AM

Subject: RE: EPA's Confirmatory Maintenance Form

Hello Lynn,

Attached you will find your questionnaire with my added details.

Further I have attached a description for the oil change, specifications for the oil and coolant and how to change the filter.

Let me know if you have any questions on this or need something additionally.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211

Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, September 22, 2010 8:26 AM

To: Berenz, Sebastian

Subject: Fw: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

I will need the information for the maintenance very soon. Also, I need to know what the maintenance schedule says regarding oil changes. Do you have a copy of the page from the owner's manual that you can send me?

Thanks.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 09/22/2010 08:24 AM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Berenz, Sebastian" < Sebastian. Berenz@vw.com>

Date: 08/25/2010 04:20 PM

Subject: EPA's Confirmatory Maintenance Form

Hi, Sebastian.

Attached is the form that we use during maintenances for vehicles in a confirmatory class. There are a few items that I need you to provide.

I've indicated those things in red. Please fill in the blanks and return the file to me. Please also let me know if you have any questions.

In case you are interested in seeing the telephone questionnaire, I've attached that as well.

Thanks,

Lynn Sohacki Environmental Protection Agency

3

734-214-4851 734-214-4869 (fax)

(See attached file: N001c-002c TELEPHONE QUESTIONNAIRE.doc)(See attached

file: N001 maintenance before FTP.doc)

(See attached file: N001 maintenance before FTP.doc)(See attached file:

FilterReplaceProc.pdf)(See attached file: FluidCapacity.pdf)(See attached file: OilFilterAssem.pdf)(See attached file:

OilLevelCheck.pdf)



National Vehicle and Fuel Emissions Laboratory 2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number	N001RXX-	0043c]			
Equivalent Test Weight:		4000.	0 Pounds			
Nominal Fuel Tank Capacity		18.	5 Gallons	40% Fill	7.4 Gallons	
Drive Axle:		front wheel	drive	Front, Re	ar or All whe	el drive
Tire Pressure:		see sticker	on driver	siPSI		
Mfr. Shift Schedule (if requir	ed)	n.a.	FTP	n.a.	HWY	n.a. US06
Vehicle Target Road-Load Co	oefficients	,	Vehicle	Set Road-	Load Coeff	icients
A 37.77	Lb-force			A		Lb-force
B 0.4667	Lb-force*	mph	I	В		Lb-force*mph
c 0.0182	Lb-force*	mph ²	•	С		Lb-force*mph ²
Does this vehicle qualify for relaxed	d in-use stan	ıda rds as set	t forth in 4	0 CFR 86.18	811-04(p)?	N (Y/N)
Vehicle Starting Instructions,	, including	g Traction	Control	disabling:		
After starting the vehicle press ESP-Buttor	and keep pre	ssing for 3 sec	ond to disab	e the traction o	control.	
To avoid unnecessary delays, please provi	ide specific ins	tructions and p	ictures (if ne	cessary) for th	e following items	<u>s:</u>
Canister Loading Process:	see attached manual					
Fuel Draining Process:	see attached	manual				
ABS Disabling Process:	n/a					
Fuel Switch Process (Flex Fuel	n.a.					
Comments:						
	F:	or internal E	PA Use C	nlv:		
This information was obtained from: * Letter, e-mail, fax or other doc (attach ar * Verbal instruction from the ma * Other (specify)	cument delivere	d from the manu	facturer			
Manufacturer Representative:						
EG&G Representative:						

EPA Representative:	Date:

WI-XML Page 1 of 2

Cooling System, Checking for Leaks

Special tools and workshop equipment required

Cooling system tester -V.A.G 1274-Adapter -V.A.G 1274/8-Adapter -V.A.G 1274/9-

Procedure

Engine at operating temperature.



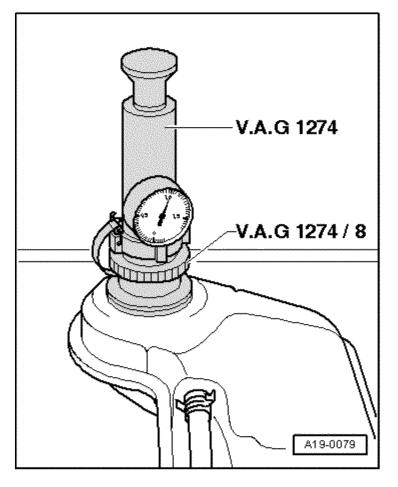
// WARNING

Cover cap of expansion tank with rag and open carefully, as hot steam i.e. hot coolant may escape when opening.

- Open cap of coolant expansion tank.
- Position cooling system tester -V.A.G 1274- with adapter -V.A.G 1274/8- on expansion tank.
- Generate a positive pressure of approximately 1.0 bar using hand pump of cooling system tester.

If pressure drops:

- Search for leaking areas and repair malfunction.



Pressure relief valve in cap, checking

- Position cooling system tester -V.A.G 1274- with adapter -V.A.G 1274/9- on cap.
- Generate a positive pressure using

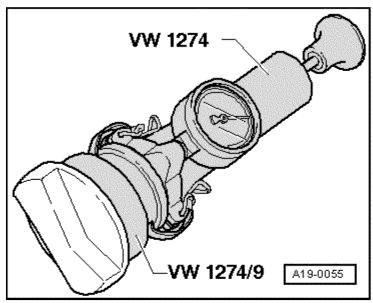
WI-XML Page 2 of 2

> hand pump of cooling system tester.

The pressure release valve must open at a positive pressure of 1.4 to 1.6 bar.

If check-valve does not open as indicated:

- Replace cap.



2010-10-11 11-03-38.pdf sebastian.berenz@vw.com Hello Lynn, Please see attached a letter from Volkswagens Group of America. It describes what the colleagues from Germany request. If there are any questions occurring, please do not hesitate to contact me. Thank you very much. Best regards. Sebastian Berenz Manager In-Use Emission Compliance **Enviromental Engineering Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207 E-Mail: sebastian.berenz@vw.com http://www.volkswagen.com P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To:

From:

Sent:

Subject: Request

Lynn Sohacki/AA/USEPA/US@EPA[]

Mon 10/11/2010 12:13:33 PM

"Berenz, Sebastian"

1

2

VOLKSWAGEN

GROUP OF AMERICA

Ms. Lynn Sohacki U.S. Environmental Protection Agency Office of Transportation and Air Quality 2000 Traverwood Road Ann Arbor, Michigan 48105 Dr. Christoph Kohnen Name
Dlrector Title
EEO Department
248-754-4201 Phone
248-754-4207 Fax
christoph kohnen@vw.com E-Mail

October 8, 2010 Date

VOLKSWAGEN GROUP OF AMERICA, INC 3800 HAMLIN ROAD AUBURN HILLS, MI 48326 PHONE +1 248 754 5000

Subject: Request for Approval of Additional Preconditioning – Test Group 8ADXV03.1374

Dear Ms. Sohacki:

Volkswagen Group of America, Inc. (Volkswagen) has been informed that the U.S. Environmental Protection Agency will conduct in-use surveillance testing on a number of 2008 model year vehicles in Test Group 8ADXV03.1374. Volkswagen respectfully requests that EPA grant approval for additional preconditioning.

Volkswagen recognizes that EPA has allowed for additional sulfur preconditioning applicable to in-use testing of NLEV and Tier 2 vehicles. The provisions for such allowance are described in Manufacturer's Guidance Correspondence CISD-06-04, dated April 6, 2006.

In addition, Volkswagen had requested, in the past, additional preconditioning for certain 2003 model year 2.0L vehicles certified to the California SULEV emission standards. The basis for this request was that additional time is required for the fuel control loop on these vehicles to adapt to the fuel quality and operating conditions specified in the regulations for in-use testing.

Volkswagen is requesting additional preconditioning for vehicles in 2008 model year Test Group 8ADXV03.1374 on the following basis.

Rational

Fuel sulfur levels were reduced concurrent with the adoption of Tier 2 regulations. Most gasoline refiners were required to meet a 30 parts per million (ppm) refinery average and an 80 ppm per-gallon cap in 2006. However, there are a few refineries that have a few more

years to meet the standards as a result of program flexibilities (e.g., small refineries). Since sulfur accumulates on the catalyst and reduces the active surface for catalytic conversion, emission results may increase slightly above expected values. However, sulfur can be removed by heating up the catalyst above a certain temperature over a limited period of time. These conditions can be met by performing a USO6 driving cycle prior to initial emission testing.

To evaluate the impact of sulfur accumulation and desulfuring driving, VWGoA recently performed emission testing on in-use vehicles of this test group.

The Preferred Procedure had 3 Steps

- First, test each vehicle as received with in-use fuel from the pump, refilled by the customer. There were 2 cars with sufficient fuel for testing.
- Second, drain and refill with certification fuel and test FTP75.
- Third perform USO6 as a preconditioning drive and retest FTP75.

Results

One vehicle did perform below the standards with in-use fuel and did not improve after USO6 driving. Therefore, we conclude that this vehicle did not experience any sulfur residuals at the testing point.

				Transmi		NMOG	CO	Nox	
	VIN#	Model	Engine	ssion	Mileage	[% of Std.]	[% of Std.]	[% of Std.]	comment
į			3,21 FSI	Atq	49767	61.4	17.2	44.4	in-use fuel as received
į	FX h		3,2l FSI	Atq	49793	91.8	22.1	49.0	Cert fuel
į		A6	3,21 FSI	Atq	49828	68.9	18.7	26.4	cert fuel after US06 Prep.
L		i							

One vehicle did perform above the standards with in-use fuel and did improve after cert fuel testing and as of USO6 driving. Emission data lead to the assumption, that this vehicle might have sulfur residuals, which could be removed.

Mode Engine ssion Mileage [% of Std.] [% of Std.] comment				Transmi		NMOG	CO	Nox	
At Collective 1200 1100 In Puse item as received	_VIN#	Model	Engine	ssion	Mileage	[% of Std.]	[% of Std.]	[% of Std.]	comment
A4 3,2I FSI Atq 12412 94.8 18.8 17.8 Cert fuel		A4	3,2l FSI	Atq	12386	110.1	25.4	13.0	in-use fuel as received
	HY F	A4	3,2l FSI	Atq	12412	94.8	18.8	17.8	Cert fuel
A4 3,2! FSI Atq 12445 78.6 19.6 8.2 cert fuel after US06 Prep.		A4	3,21 FSI	Atq	12445	78.6	19.6	8.2	cert fuel after US06 Prep.

Two vehicles also improved after preconditioning with USO6 driving. Emission data led to the assumption, that these vehicles might have sulfur residuals, which could be removed.

				Transm	l	NMOG	CO	Nox	
VIN#		Model	Engine	ssion	Mileage	[% of Std.]	[% of Std.]	[% of Std.]	comment
Ev	C	A6	3,21 FSI	Atq	53381	124.0	28.1	48.0	Cert fuel
Ex.	O	A6	3,2l FSI	Atq	53415	84.7	23.9	32.9	cert fuel after US06 Prep.
VIN#		Model	Engine	Transmi		NMOG	CO	Nox	
∨in# Ex. (Model A6	Engine 3,2l FSI	Transmi ssion Atq	Mileage		CO [% of Std.] [23.9	Nox [% of Std.]	comment Cert fuel

Conclusion

Testing indicates that in-use fuel with higher sulfur content than certification fuel is still available for customer use. Test data show that, in general, USO6 driving does not improve emission results. Test data indicate that increased HC emissions induced by undesirable sulfur residuals on the catalytic surface are removable under USO6 driving conditions.

To evaluate the emission performance of this Test Group it is indicated to remove the sulfur residuals before testing.

Request

Volkswagen is requesting USO6 cycle preconditioning driving for vehicles in 2008 model year Test Group 8ADXV03.1374 prior to the first confirmatory test of each vehicle.

If there are any questions regarding this request, please contact Mr. Sebastian Berenz of my staff at (249) 754-4211.

Sincerely,

VOLKSWAGEN GROUP OF AMERICA, INC.

Dr. Christoph Kohnen

Director

Engineering and Environmental Office

	Lynn Sohacki/AA/USEPA/US@EPA[] "Berenz, Sebastian" Mon 10/11/2010 12:24:35 PM RE: In-use vehicles scheduled for next week rameters Form_N001RXX-0018C.pdf rameters Form_N001RXX-0055C.pdf
Hello Lynn,	
· ·	ou will find the requested data for the next two cars. in Ann Arbor for the inspections as usually.
Please let n	ne know if something changes.
Best regard	ls.
Sebastian E	Berenz
	-Use Emission Compliance tal Engineering Office
3800 Hamli Auburn Hill Phone: (248 Cell: (248) FAX: (248)	s, MI 48326 8) 754-4211 736-3487
http://www	v.volkswagen.com
P Before yo	ou print it, think about your responsibility and commitment to the ENVIRONMENT!
From: Soha Sent: Thurs To: Berenz,	I Message cki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov] day, October 07, 2010 9:13 AM Sebastian use vehicles scheduled for next week
Hi, Sebastia	nn.
Listed belo	w is the information for the vehicles that we have scheduled for next week.
N001RXX-0 (Wednesda	055C (2008 Audi/A6) - VIN# Ex. 6 1000 vehicle pick up on 10/13/10 y)
N001RXX-0 up on 10/1	018C (2008 Audi/A4) - VIN# Ex. 6 0830 vehicle pick 4/10 (Thursday)
	4

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



National Vehicle and Fuel Emissions Laboratory 2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:		N001RXX-	0018C				
Equivalent Test Weight:			4000.0	Pounds			
Nominal Fuel Tank Capacity	:		16.6	Gallons	40% Fill	6.64	Gallons
Drive Axle:		front wheel	drive	Front, Re	ar or All whe	el drive	
Tire Pressure:		see sticker	on driver	PSI			
Mfr. Shift Schedule (if requir	ed)	n.a.	FTP	n.a.	HWY	n.a.	US06
Vehicle Target Road-Load Co	oefficients		Vehicle S	Set Road-	Load Coeff	icients	
A 30.8	Lb-force		P	A		Lb-force	
B 0.311	Lb-force*	mph	E	3 <u> </u>		Lb-force [*]	^k mph
c 0.177	Lb-force*	mph ²	c	:		Lb-force [*]	*mph ²
Does this vehicle qualify for relaxed	l in-use stan	ıda rds as set	forth in 40) CFR 86.18	311-04(p)?	N	_(Y/N)
Vehicle Starting Instructions.	, including	Traction	Control	disabling:			
After starting the vehicle press ESP-Button	and keep pre	ssing for 3 seco	and to disable	the traction o	control.		
To avoid unnecessary delays, please provi	de specific ins	tructions and p	ctures (if nec	essary) for th	e following items	s:	
Canister Loading Process:	see attached	manual					
Fuel Draining Process:	see attached	manual					
ABS Disabling Process:	n/a						
Fuel Switch Process (Flex Fuel	only):	n.a.					
Comments:							
	F	or internal E	PA Use O	nlv:			
This information was obtained from: * Letter, e-mail, fax or other doc (attach ar * Verbal instruction from the ma * Other (specify)	cument delivere ny additional inj	d from the manus	facturer				
Manufacturer Representative:							
EG&G Representative:							

EPA Representative:	Date:	



EPA Vehicle Control Number:

National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

N001RXX-0055C

Equivalent Test Weight:			4250.0	Pounds			
Nominal Fuel Tank Capacity	:		16.6	Gallons	40% Fill	6.64	Gallons
Drive Axle:		front wheel	drive	Front, Rea	ar or All whe	el drive	
Tire Pressure:		see sticker	on driver	sPSI			
Mfr. Shift Schedule (if requir	ed)	n.a.	FTP	n.a.	HWY	n.a.	US06
Vehicle Target Road-Load Co	oefficients		Vehicle S	Set Road-l	Load Coeff	ficients	
A 38.22	Lb-force		,	4		Lb-force	
в 0.47	Lb-force*	mph	E	3		Lb-force*	^k mph
c 0.0172	Lb-force*	mph^2	C			Lb-force*	*mph ²
Does this vehicle qualify for relaxed	d in-use stan	da rds as set	forth in 4	0 CFR 86.18	11-04(p)?	N	_(Y/N)
Vehicle Starting Instructions,	, including	Traction	Control	disabling:			
After starting the vehicle press ESP-Button	and keep pre	ssing for 3 seco	and to disable	e the traction c	ontrol.		
To avoid unnecessary delays, please provi Canister Loading Process:	ide specific ins	·	ctures (if ned	cessary) for the	following item	s:	
Fuel Draining Process:	see attached	manual					
ABS Disabling Process:	n/a						
Fuel Switch Process (Flex Fuel		n.a.					
Comments:							
	Fo	or internal E	PA Use O	nly:			
This information was obtained from: * Letter, e-mail, fax or other doc (attach ar * Verbal instruction from the ma * Other (specify)	cument delivered	d from the manus	facturer				
Manufacturer Representative:					_ Date:		
EG&G Representative:					Date:		

EPA Representative:	Date:	

To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Berenz, Sebastian"

Sent: Tue 10/12/2010 12:59:54 PM **Subject:** request detailed test procedure

2010-10-12 11-59-41.pdf sebastian.berenz@vw.com

Hello Lynn,

Attached you will find another request from Volkswagen for the ongoing confirmatory program.

If there are any questions, please contact me.

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211

Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

VOLKSWAGEN

GROUP OF AMERICA

Ms. Lynn Sohacki U.S. Environmental Protection Agency Office of Transportation and Air Quality 2000 Traverwood Road Ann Arbor, Michigan 48105 Dr. Christoph Kohnen Name
Dlrector Title
EEO Department
248-754-4201 Phone
248-754-4207 Fax
christoph.kohnen@vw.com E-Mail

October 12, 2010 Date

Subject: Request for approval of a revised vehicle preparation and preconditioning procedure for Test Group 8ADXV03.1374

Dear Ms. Sohacki:

Volkswagen Group of America, Inc. (Volkswagen) has been in contact with the U.S. Environmental Protection Agency regarding the in-use performance of Test Group 8ADXV03.1374. The current status is that the EPA will conduct in-use confirmatory testing on a number of 2008 model year vehicles in this test group. Volkswagen continues to investigate this engine family.

Volkswagen recognized while inspecting the first car (N001RXX-0043c) at EPA's laboratory, that the fuel drain and refill procedure created fault codes and pending codes which were not present when the car first arrived for vehicle preparation prior emission testing. The fault codes and impending codes are attributed to the current drain and fill practice at the EPA laboratory where the vehicle is drained of fuel with the engine running. The fuel tank is then considered empty when the engine stalls. Following the engine stall event, the vehicle is not immediately refilled with fuel. This introduces air in the fuel system. Several subsequent engine starts with air in the fuel system leads to the discussed fault codes. In addition, Volkswagen believes when observing the preparation of vehicle N001RXX-0043c that numerous starts with air still retained in the fuel system caused adaption values that deviated from normal.

Volkswagen recommends that the preparation and preconditioning procedure be revised to eliminate potential non representative emission results. We recommend that the vehicle be immediately refilled with at least one gallon of certification fuel after the engine stall event and that the engine be started and idled for five minutes. This should minimize the negative effect of air trapped in the fuel system. In addition, Volkswagen recommends that an additional cold start FTP-72 be added as a preconditioning cycle to ensure the air is fully purged from the fuel system and the vehicle is properly adapted. A detailed flowchart is attached with our recommended changes highlighted.

Volkswagen respectfully requests to adopt this detailed procedure.

VOLKSWAGEN GROUP OF AMERICA, INC. 3800 HAMLIN ROAD AUBURN HILLS, MI 48326 PHONE 41 248 754 5000

VOLKSWAGEN

GROUP OF AMERICA

If there are any questions regarding this request, please contact Mr. Sebastian Berenz of my staff at (249) 754-4211.

Sincerely,

VOLKSWAGEN GROUP OF AMERICA, INC.

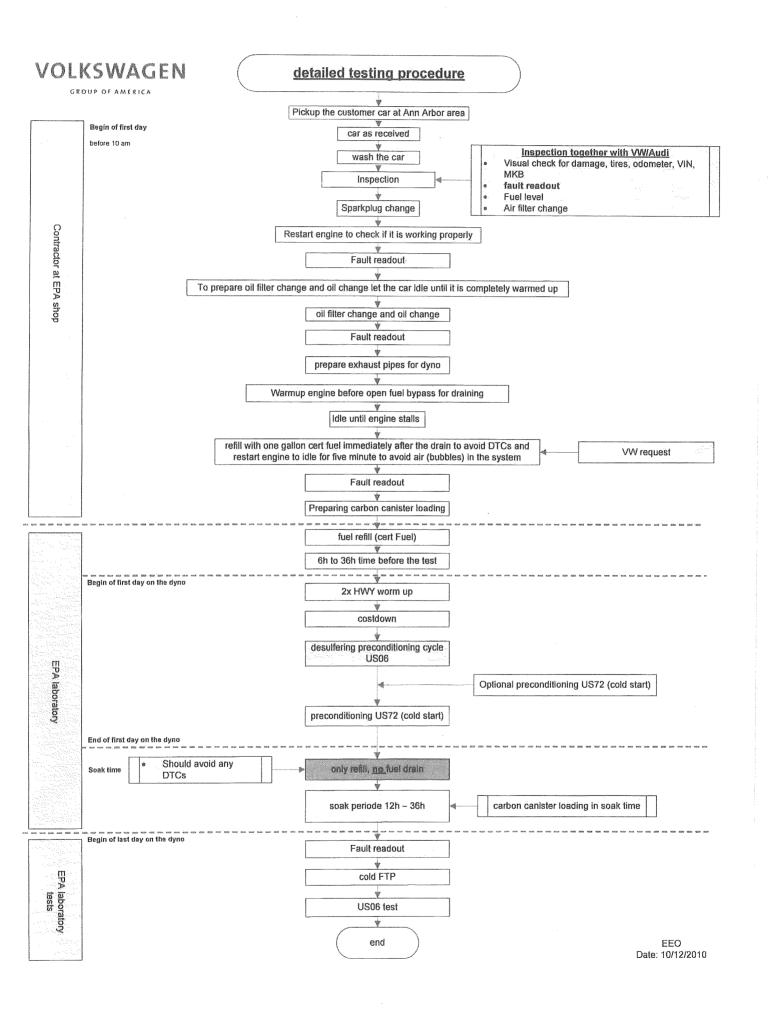
Dr. Christoph Kohnen

Director

Engineering and Environmental Office

testerren

VOLKSWAGEN GROUP OF AMERICA, INC 3800 HAMLIN ROAD AUBURN HILLS, MI 48326 PHONE +1 248 754 5000



To: Lynn Sohacki/AA/USEPA/US@EPA[]

Cc: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

From: "Banzer, Mark (I/EA-153)"
Sent: Thur 10/14/2010 2:07:12 AM

Subject: readouts

Readout A4 32FWD EPA 20011006 at arrival.txt

Readout A4 32FWD EPA 20011013 after coldstartadaptation.txt
Readout A4 32FWD EPA 20011006 after drain and refill.txt
Readout A4 32FWD EPA 20011006 after maintenance.txt

mailto:mark.banzer@audi.de

http://www.audi.com

Hi Lynn,

as requested I send you the readouts of the A4 3.2 0043C from last week an today. I renamed them, so you can easily find out when the readout was taken.

<<Readout A4 32FWD EPA_20011006 at arrival.txt>> <<Readout A4 32FWD EPA_20011013 after coldstartadaptation.txt>> <<Readout A4 32FWD EPA_20011006 after drain and refill.txt>> <<Readout A4 32FWD EPA_20011006 after maintenance.txt>>

Mit freundlichen Grüßen

Mark Banzer

Abgasentgiftung, Lambdaregelung

AUDI AG

I/EA-153

Thermodynamik/Applikation V6 FSI

85045 Ingolstadt

Tel.: +49 (0)841 89-56654

Fax: +49 (0)841 89-38831

mailto:mark.banzer@audi.de

http://www.audi.com

Sitz/Domicile: Ingolstadt

Registergericht/Court of Registry: Amtsgericht Ingolstadt

HRB Nr./Commercial Register No.: 1

Vorsitzender des Aufsichtsrats/Chairman of the Supervisory Board: Martin Winterkorn

Vorstand/Board of Management: Rupert Stadler (Vorsitzender/Chairman), Ulf Berkenhagen, Michael Dick, Frank Dreves, Peter Schwarzenbauer, Thomas Sigi, Axel Strotbek

Wichtiger Hinweis: Die vorgenannten Angaben werden jeder E-Mail automatisch hinzugefügt und lassen keine Rückschlüsse auf den Rechtscharakter der E-Mail zu.

Important Notice: The above information is automatically added to this e-mail. This addition does not constitute a representation that the content of this e-mail is legally relevant and/or is intended to be legally binding upon AUDI AG.

Datum: 06.10.2010 19:31:44

Steuergerät

01 7E0 7E8 Motorelektronik

Diagnosedatensatz: VAG\SG\EV_ECM30TFS021XS85_001

Steuergeräteidentifikation

8E1910559F

Teilenummer: Konfiguration:

0060 programmierbar

Systembezeichnung:

3.2I V6 FSI

Gerätenummer: Importeursnummer: 64638 444

Betriebsnummer:

02136 0104010902070120

Lange Codierung: Hardwareteilenummer:

8E0907559J

Seriennummer:

XXXXXXXXXXXXX

Herstellerwerk: Fertigungsdatum: SME-RBG 25.06.07

Änderungsstand:
Prüfstandnummer:

--H21---

Herstellernummer:

0394 0442

Status des Flash:

0000 0000 1 1 0000 0000

Motor/Systemnummer:

AUK

Fahrgestellnummer:

Ex. 6

Fehlerspeicher

0 Fehler gespeichert

							
1	0 U/min		51.7 °C		0.0 %		0.0 %
2	0 U/min		0 %		19.31 m	S	986.7 mbar
3	0 U/min		984.9 mba	r	5.5 %	,	-0.0 °v.OT
4	0 U/min		12.138 V		51.7 °	С	41.2 °C
4 5	0 U/min		0 %		0 km/h		
6	0 U/min		0 %		41.2 °C		-2.8 %
7							
8							
9	63.8 mm		48.0 mm		0		0
10	0 U/min		0 %		5.5 %		-0.0 °v.OT
11	0 U/min		51.7 °C		41.2 °	С	-0.0 °v.OT
12							
13							
14	0 U/min		0 %		0	g	esperrt
15	0	0	(0		gespe	•
16	0	0	(0		gespe	
17						•	
18	0 U/min		0 U/min		0 %		0 %
19							
20	0.00 KW		0.00 KW		0.00	KW	0.00 KW

21 22 23 24 25	0 U/min 0 U/min 0 U/min	0.00 KW 0 % 0 % 0 %	0.00 KW	0.00 KW 0.00 KW 0.00 KW
26 27 28 29	4.004 V 4.004 V 0 U/min	4.004 V 4.004 V 0 %	4.004 V 51.7 °C	
30 31 32 33 34 35 36 37 38 39	0.0 % 0 U/min 0 U/min	0100 1.00008 2.9 % 2.055 V -33.0 °C -33.0 °C Test AUS 0.429 V 0.424 V 0.429 V	0.0 % 0.00977 0.03516	Test AUS
40 41 42 43 44 45	O Ohm O Ohm U/min U/min	Hzg. vK. EIN Hzg. vK. EIN -33.0 °C -33.0 °C	65.53 I 65.53 I 0.429 V 0.429 V	kOhm Hzg. nK. EIN kOhm Hzg. nK. EIN aus aus
45 46 47 48 49	0 U/min 0 U/min	-33.0 °C -33.0 °C		
50 51 52	0 U/min 0 U/min	780 U/min 780 U/min	aus 0	Kompr. AUS 12.138 V
53 54 55 56 57 58	O U/min	0.0 Nm 780 U/min) % 29.9 Nm 0.0 Nm	V 0.0 Nm 5.5 %00 000000 0000 AUS 0.7 Nm
59 60 61 62 63 64 65	15.3 % 0 U/min 15.3 % 14.9 % 0.527 V	85.5 % 12.138 V 85.5 % 89.4 % 4.510 V	0 0.0 % 14.9 % 0.781 V	ADP. i.O. 00 0000 7.5 % gelernt 4.251 V
66 67	0 km/h	0000 1000 0000 1000	0 km/h	1000 0001
68	0 U/min	0 %	0	WK auf
69 70 71 72 73 74 75 76	0 % Reed auf	0.0 %	0.0 %	Test AUS Test AUS

77 78 79 80 81 82 83 84				
85 86 87 88	12700 km 0000 0000 0000 0000 1100 1111	54 1111 1111 0000 0000 0010 1101	298 0001 111 0000 0000 1100 1000	0000 0000
89 90 91 92 93	0 km 0 U/min 0 U/min 0 U/min	i.O. 0 % 0 % 0 %	0.00 KW 0.00 KW 0.00 KW	0.00 KW 0.00 KW 0.00 KW
94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115	0.00 KW 0.0 % 0.00 KW 0 U/min 0 U/min 0 U/min 0 U/min 5.96 bar 52.5 °C 0 U/min 5.96 bar 0 U/min	0.00 KW 0.0 % 0.00 KW 0 % 51.7 °C 51.7 °C 0 % 51.7 °C 0.0 % 2.3 % 0 % 10 % 0.0 %	Test AUS 0.000 V Test AUS 984.9 mbar 0.00 KW 0.0 % 0.0 s 19.31 ms 41.2 °C -3.8 % 0.8 % 51.7 °C 0.0 %	Test AUS ADP. i.O. Test AUS aus 0.00 KW aus 1000 0001 984.9 mbar 19.31 ms aus 0.8 % ein 1.82 s aus
116 117 118 119 120	0 U/min	496.0 Nm	19.3 Nm	ASR n.aktiv
121 122 123	0 U/min	496.0 Nm	19.3 Nm	kein Eingr.
124 125 126 127 128 129 130 131 132	Getriebe 1	ABS 1 Lenkwink. 1 Len	Kombi 1 Airbag 1 krad 1	Klima 1

133 134 135	52 °C	11.2 °C 10 %	41.2 °C	51.7 °C
136 137 138 139 140 141 142 143	aus 52.5 °C 75.6 °C 0 % 0.00 bar 100 %	Kompr. AUS 0.0 g/s 0.0 kg 61.89 bar 0 100.0 %	aus 6.80 bar 0 km/h 0.0 kg 4.60 bar 0 0.014 V	0 % Test AUS Test AUS inaktiv 3 ADP. i.O.
144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 160 161 162 163 164 165 166 167 168 169	100 %	100.0 %	0.000 V	ADP. i.O.
170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187	aus	aus	aus	aus

```
189
190
      51.7 °C
                  0 %
                       0 U/min
                                      5 °DK
191
192
193
194
195
196
197
198
199
200
201
      50 %
                            6.99 bar
                                        2.490 V
                  5
                  0.6 %
202
                                       0.0 %
      2.9 %
                            0.0 %
                             19.31 ms 19.31 ms
203
      0 U/min
                  0 %
                 65.53 kOhm -33.0 °C
204
      65.53 kOhm
                                               Test AUS
205
                  0.0 %
                          100.0 %
      12.0 %
206
      0 %
                 0.0 %
                             0 %
                                        0.0 %
207
      0000 0001
                12460 km 12460 km 0000 0000
                          0 0
803 ge
208
      0
                0
                        0
209
                0
                                     gesperrt
      0
                  0 %
210
      0 U/min
                          0.0 mbar
                                        0.00 KW
211
      0.0 g/s
                 0.0 g/s
                                       986.9 mbar
      0 %
                             0 %
212
                 0.0 %
                                       0.0 %
213
                             0.0 mbar
      0 %
                 200 %
214
      0.4 %
                  -0.2 %
                             0.0 %
215
      0.27120
                  0.27044
216
      0.00000
                  0.00000
                              0
                                         NA
217
      0.00000
                  0.00000
                              0
                                         NA
      0.00
218
                 -0.59
                            -0.13
                                        -0.82
219
      -0.26
                 0.06
                            298
                             9.7 °C
                                         9.7 °C
220
      -5.2 °C
                  -5.2 °C
                  24.7 °C
221
      24.0 °C
                             31.5 °C
                                         31.5 °C
      41.2 °C
                  41.2 °C
222
223
224
      0.4 %
                  0.5 %
                             -0.9 %
                                         0.7 %
225
                  0.3 %
                              0.0 °
                                        0.0 °
      -1.0 %
                              226
                  12460 km
      12460 km
227
      -0.01 mg/h
                  0.05 mg/h
228
      2.055 V
                  2.060 V
                              0.0 °C
                                      0000 0000
      41.2 °C
                  0.0 °C
                              0.0 °C
                                         0.0 °C
229
      0.0 kg
230
                  0.0 kg
                             12460 km
231
232
      41.2 °C
                  0000 0100
                               -1.6 %
                                           2.8 %
      -0.1 %
                              -0.1 %
233
                  3.9 %
                                         3.9 %
                  3.1 %
                                         0.7 %
234
      1.1 %
                              -0.2 %
235
      52.5 °C
                  51.7 °C
                              8.2 °C
                                         7.5 °C
236
      51.7 °C
                  51.7 °C
                              0.0 s
237
238
      0.860 V
                  4.199 V
239
      1.308 V
                  4.116 V
                              1.416 V
                                         4.107 V
240
                              0000 0011
                                           0000 0000
      0 km/h
                  1111 0111
241
      no_error
242
      no_error
243
      no_error
244
      no_error
```

```
245
     no_error
246
     no_error
247
     no_error
248
     no_error
249
     no_error
                                 0.053 V
250
     0 %
     1.02 bar 2.70 bar 0.34 s 51.7 °C
251
252
                173.89 bar 655.35 s 51.7 °C
     173.89 bar
253
     S62R7010 CB1A S0
254
     No AS active
```

Datum: 13.10.2010 19:34:23

Steuergerät

01 7E0 7E8 Motorelektronik

Diagnosedatensatz: VAG\SG\EV_ECM30TFS021XS85_001

Steuergeräteidentifikation

Teilenummer: 8E1910559F

Konfiguration: 0060 programmierbar

Systembezeichnung: 3.2I V6 FSI Gerätenummer: 64638 Importeursnummer: 444 Betriebsnummer: 02136

Lange Codierung: 0104010902070120 Hardwareteilenummer: 8E0907559J Seriennummer: XXXXXXXXXXXXXX

Herstellerwerk: SME-RBG
Fertigungsdatum: 25.06.07
Änderungsstand: --H21--Prüfstandnummer: 0394
Herstellernummer: 0442

Status des Flash: 0000 0000 1 1 0000 0000

Motor/Systemnummer: ____AUK

Fahrgestellnummer: Ex. 6

Fehlerspeicher

2 Fehler gespeichert

P0441 Tankentlüftungssystem Durchsatz fehlerhaft

0110 1000 unplausibles Signal

Bedingungen erfüllt

statisch

Warnlampe aus

P310B Kraftstoffniederdruckregelung Kraftstoffdruck außerhalb der Toleranz

0110 0110 Kurzschluss nach Plus

Bedingungen erfüllt

statisch

Warnlampe aus

P0441 Tankentlüftungssystem Durchsatz fehlerhaft

0000 1000 Fehlerstatus 5 dez Priorität

1 dez Häufigkeitszähler 40 dez Verlernzähler 12708 km Kilometerstand

00.00.00 Datum 00:00:00 Uhrzeit 704 U/min Drehzahl

109 mg/H Luftmasse pro Hub

73.5 °C Temperatur

Leerlauf Text aus Tabelle

15.7 % Last

0 km/h Geschwindigkeit

P310B	Kraftstoffniederdruckregelung	Kraftstoffdruck außerhalb der Toleranz
-------	-------------------------------	----------------------------------------

0000 0001 Fehlerstatus
5 dez Priorität
1 dez Häufigkeitszähler
40 dez Verlernzähler
12708 km Kilometerstand
00.00.00 Datum
00:00:00 Uhrzeit
704 U/min Drehzahl

109 mg/H Luftmasse pro Hub

90.0 °C Temperatur Leerlauf Text aus Tabelle

4.2 bar Druck

0 km/h Geschwindigkeit

	=			
1 2 3	0 U/min 0 U/min 0 U/min	982.8 mbar	7.25 ms 5.1 %	-0.0 °v.OT
4	0 U/min	11.934 V	32.2 °C	25.5 °C
5 6 7	0 U/min 0 U/min	0 % 0 %		-3.0 %
8	00.0	40.0	0	0
9	63.2 mm	48.0 mm		0 0.0 % OT
10 11	0 U/min 0 U/min		5.1 % 25.5 °C	-0.0 °v.OT -0.0 °v.OT
12	O O/Mill	32.2 C	25.5 C	-0.0 V.O1
13				
14	0 U/min	0 %	0 a	esperrt
15	0	0 0	gesp	
16	Ö	0 0	gesp	
17			9	
18	0 U/min	0 U/min	0 %	0 %
19				
20	0.00 KW	0.00 KW	0.00 KW	0.00 KW
21	0.00 KW	0.00 KW		
22		0 %	0.00 KW	0.00 KW
23		0 %		
24	0 U/min	0 %	0.00 KW	0.00 KW
25				
26	4.004 V	4.004 V	4.004 V	4.004 V
27	4.004 V	4.004 V		
28	242 U/min	100 %	32.2 °C	Test AUS
29	0.0400	0400	0.040	0400
30	0 0100 1.02840	0.00248	1.02840	0100
31 32	1.02840 2.1 %		1.02840 -1.1 %	0.98348
3∠ 33	2.1 % 0.0 %		-1.1 % 0.0 %	
55	0.0 70	2.032 V	0.0 70	2.032 V

34 35 36 37 38 39 40	1826 U/min 0.429 V 20 % 19 % 10.1 g/s	-33.0 °C Test AUS 0.434 V 0.424 V 0.429 V	0.03516 0.424 V 0.0 % 0.0 % 0.424 V	Test AUS Test AUS	
41 42 43 44 45	16.38 kOhm 16.38 kOhm 1823 U/min 1776 U/min	Hzg. vK. E Hzg. vK. E 73.0 °C 73.0 °C	IN 65.53 IN 65.53 0.429 V 0.429 V	kOhm Hzg. kOhm Hzg. aus aus	nK. EIN nK. EIN
45 46 47 48 49				Test AUS Test AUS	
50 51 52	1572 U/min 1557 U/min	866 U/min 866 U/min		Kompr. Al 11.730 V	JS
52 53 54 55 56 57 58 59	1505 U/min 1477 U/min 1422 U/min 1371 U/min 1332 U/min 1304 U/min	-0.2 Nm 866 U/min 866 U/min	13.5 Nm -0.3 Nm Kompr. <i>F</i>	V 0.0 Nm 4.3 % 00 000 00 00 AUS 0.7 N	00 00
60 61 62 63 64 65	1232 U/min 13.7 %	87.1 % 12.342 V 87.1 % 89.4 % 4.510 V	-12.0 % 14.9 %	ADP. i.O. 00 000 7.5 % gelernt 4.251 V	0
66 67	0	000 1011	0 km/h	1000 0001	
68 69	1081 U/min		0	WK auf	
70 71 72 73 74 75 76 77 78 79 80 81	0 % Reed zu	0.0 %		Test AUS est AUS	
82 83 84 85 86 87 88 89	12700 km 0000 0000 0000 0000 1100 1111 0 km	54 1111 1111 0000 1000 0010 1101 zu klein	298 0001 11: 0000 000 1100 100	0 0000 0	

90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 121 122 123 124	951 U/min 944 U/min 941 U/min -0.37 KW 0.00 KW 100.0 % 0.00 KW 928 U/min 921 U/min 9000 0000 911 U/min 904 U/min 6.93 bar 32.2 °C 879 U/min 6.92 bar 892 U/min	0 % 0 % 0 % 4.12 KW 0.00 KW 100.0 % 0.00 KW 24 % 0 % 32.2 °C 25 % 32.2 °C -2.5 % 0.0 % 26 % 71 % 0.0 %	0.00 KW 0.00 KW 0.00 KW -0.37 KW Test EIN 3.276 V Test EIN 408.5 mbar 0.00 KW 0.0 % 4.2 s 1.78 ms 25.5 °C 25.0 % 3.1 % 32.2 °C 20.0 %	0.00 KW 0.00 KW 1.87 KW Test EIN ADP. i.O. Test EIN aus 0.00 KW aus 0101 0001 414.4 mbar 1.78 ms aus 0.0 % aus .00 s aus
	867 U/min 899 U/min	496.0 Nm 496.0 Nm	49.4 Nm 48.0 Nm	ASR n.aktiv kein Eingr.
125 126 127 128 129 130 131	Getriebe 1	ABS 1 Lenkwink. 1 Ler	Kombi 1 Airbag 1 nkrad 1	Klima 1
133 134 135	31 °C	11.2 °C 10 %	25.5 °C	32.2 °C
136 137 138 139 140 141 142 143	aus 32.2 °C 75.6 °C 57 % 0.00 bar 100 %	Kompr. AUS 0.0 g/s 0.0 kg 35.21 bar 5 100.0 %	aus 6.60 bar 0 km/h 0.0 kg 35.34 bar -7 2 0.009 V	0 % Test AUS Test AUS inaktiv ADP. i.O.
144 145	100 %	100.0 %	0.000 V	ADP. i.O.

146 147 148 149 150 151 152 153 154 155 156 157 158 160 161 162 163 164 165 166 167 168 169 170	aus	aus	aus	aus
172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 190 191 192 193 194 195 196 197	32.2 °C	0 %	0 U/min	5°DK
198 199 200 201	71 %	8	6.99 bar	2.662 V

```
0.0 % 0.0 %
7.25 ms 7.25 ms
                 0.6 %
202
      2.9 %
                   0 %
203
      0 U/min
                     65.53 kOhm -33.0 °C
204
      65.53 kOhm
                                                Test AUS
205
      -2.2 %
                  0.0 %
                             100.0 %
206
      0 %
                  0.0 %
                              0 %
                                         0.0 %
                  12460 km
207
      0000 0001
                                12460 km
                                                0000 0000
                           0 0
804 a
208
      0
                 0
                        0
                                      gesperrt
209
      0
                 0
                  0 %
210
                           0.0 mbar
      0 U/min
                                         0.00 KW
                                        985.8 mbar
211
      0.0 g/s
                  0.0 g/s
212
                              0 %
                                         0.0 %
      0 %
                  0.0 %
213
      0 %
                  200 %
                              0.0 mbar
214
      0.3 %
                  -0.1 %
                              0.0 %
215
      0.26293
                  0.26217
216
      0.00000
                   0.00000
                               0
                                           NA
217
      0.00000
                   0.00000
                               0
                                           NA
218
      0.00
                  -0.59
                             -0.13
                                         -0.82
219
      -0.26
                  0.06
                             298
                             9.7 °C
                                           9.7 °C
220
      -5.2 °C
                  -5.2 °C
                              35.2 °C
221
      27.0 °C
                   27.6 °C
                                          35.2 °C
      42.0 °C
222
                  42.0 °C
223
224
      0.4 %
                  0.5 %
                              -0.9 %
                                           0.7 %
225
      -1.0 %
                  0.3 %
                               0.0 °
                                          0.0 °
                               226
      12460 km
                   12460 km
227
      0.05 mg/h
                   0.01 mg/h
228
      2.055 V
                               0.0 °C
                                           0000 0000
                   2.055 V
                               0.0 °C
                                           0.0 °C
229
      25.5 °C
                   0.0 °C
230
      0.0 kg
                  0.0 kg
                              12460 km
231
232
      25.5 °C
                   0000 0100
                               -1.6 %
                                             2.8 %
233
      -1.1 %
                  3.9 %
                               -1.1 %
                                           3.9 %
                  0.6 %
234
      -0.8 %
                               -0.8 %
                                           0.6 %
235
      31.5 °C
                   32.2 °C
                               8.2 °C
                                           7.5 °C
      32.2 °C
                   32.2 °C
236
                               0.0 s
237
238
      0.860 V
                   4.199 V
      1.308 V
239
                   4.116 V
                               1.416 V
                                           4.107 V
240
      0 km/h
                   1111 0111
                               0000 0011
                                             0000 0000
241
      mec_open_cps
242
      efppwm_plaus
243
      no_error
244
      no_error
245
      no_error
246
      no_error
247
      no_error
248
      no_error
249
      no_error
250
                                      0.053 V
      0 %
251
      1.07 bar
                   1.03 bar
                               2.01 s 32.2 °C
252
                   173.89 bar
                                 655.35 s
                                           32.2 °C
      173.89 bar
253
      S62R7010 CB1A S0
254
      No AS active
```

Datum: 07.10.2010 20:29:00

Steuergerät

01 7E0 7E8 Motorelektronik

Diagnosedatensatz: VAG\SG\EV_ECM30TFS021XS85_001

Steuergeräteidentifikation

Teilenummer: 8E1910559F

Konfiguration: 0060 programmierbar

Systembezeichnung: 3.2I V6 FSI Gerätenummer: 64638 Importeursnummer: 444 Betriebsnummer: 02136

Lange Codierung: 0104010902070120 Hardwareteilenummer: 8E0907559J Seriennummer: XXXXXXXXXXXXXX

Herstellerwerk: SME-RBG
Fertigungsdatum: 25.06.07
Änderungsstand: --H21--Prüfstandnummer: 0394
Herstellernummer: 0442

Status des Flash: 0000 0000 1 1 0000 0000

Motor/Systemnummer: AUK

Fahrgestellnummer: Ex. 6

Fehlerspeicher

2 Fehler gespeichert

P0441 Tankentlüftungssystem Durchsatz fehlerhaft

0110 1000 unplausibles Signal

Bedingungen erfüllt

statisch

Warnlampe aus

P310B Kraftstoffniederdruckregelung Kraftstoffdruck außerhalb der Toleranz

0110 0110 Kurzschluss nach Plus

Bedingungen erfüllt

statisch

Warnlampe aus

P0441 Tankentlüftungssystem Durchsatz fehlerhaft

0000 1000 Fehlerstatus 5 dez Priorität

1 dez Häufigkeitszähler 40 dez Verlernzähler 12708 km Kilometerstand

00.00.00 Datum 00:00:00 Uhrzeit 704 U/min Drehzahl

109 mg/H Luftmasse pro Hub

73.5 °C Temperatur

Leerlauf Text aus Tabelle

15.7 % Last

0 km/h Geschwindigkeit

P310B Kraftstoffniederdruckregelung Kraftstoffdruck außerhalb der Toleranz

0000 0001 Fehlerstatus 5 dez Priorität

1 dez Häufigkeitszähler 40 dez Verlernzähler 12708 km Kilometerstand

00.00.00 Datum 00:00:00 Uhrzeit 704 U/min Drehzahl

109 mg/H Luftmasse pro Hub

90.0 °C Temperatur Leerlauf Text aus Tabelle

4.2 bar Druck

0 km/h Geschwindigkeit

2 0 U/min 0 % 5.85 ms 986 3 0 U/min 982 8 mbar 5.5 % -	0 % 6.7 mbar 0.0 °v.OT
	8.2 °C
7) %
8 9 64.2 mm 46.0 mm 0 0	
	. °v.OT
) °v.OT).0 °v.OT
12	7.0 V.O1
13	
14 0 U/min 0 % 0 gespe	errt
15 0 0 0 gesperrt	
16 0 0 0 gesperrt	
17	
18 0 U/min 0 U/min 0 % 0	%
19	
20 0.00 KW 0.00 KW 0.00 KW	0.00 KW
21 0.00 KW 0.00 KW	
	.00 KW
	.00 KW
	.00 KW
25 26 4.004 V 4.004 V 4.004 V 4	.004 V
27 4.004 V 4.004 V 4.004 V 4.004 V	.004 V
	st AUS
29	31 700
300 0100 01000 0100	0100
31 1.00008 1.00008 1.00008	1.00008
32 2.1 % 2.9 % -1.1 % 0.6	
	055 V

34 35 36 37 38 39 40	0 U/min 0 U/min 0.444 V 0 % 0 % 0.0 g/s	-33.0 °C -33.0 °C Test AUS 0.444 V 0.444 V 0.444 V	0.00977 0.03516 0.444 V 0.0 % 0.0 % 0.444 V	
41 42 43 44 45	0 Ohm 0 Ohm 0 U/min 0 U/min	Hzg. vK. EIN	65.53 k 0.444 V	Ohm Hzg. nK. EIN Ohm Hzg. nK. EIN aus aus
46 47 48 49	0 U/min 0 U/min	-33.0 °C -33.0 °C		Test AUS Test AUS
50 51 52	0 U/min 0 U/min	730 U/min 730 U/min	aus 0	Kompr. AUS 12.342 V
53 54 55 56 57 58	0 U/min 0 U/min 0 U/min 0 U/min 0 U/min 0 U/min	(0 % 29.9 Nm 0.0 Nm Kompr. A	00 0000 00 0000
59 60 61 62 63 64	15.3 % 0 U/min 15.3 % 14.9 % 0.527 V	85.9 % 12.444 V 85.9 % 89.4 % 4.510 V	0 0.0 % 14.9 % 0.781 V	ADP. i.O. 00 0000 7.5 % gelernt 4.251 V
65 66 67 68	0 km/h0 U/min	0000 1000 0000 1000 0 %		1000 0001 WK auf
69 70 71 72 73 74 75 76 77 78 79 80 81 82	0 % Reed auf	0.0 %		Test AUS Test AUS
83 84 85 86 87 88 89	12700 km 0000 0000 0000 0000 1100 1111 0 km	54 1111 1111 0000 1000 0010 1101 zu klein	298 0001 1 0000 0 1100 1	0000 0000

90 91 92	0 U/min 0 U/min 0 U/min	0 % 0 % 0 %	0.00 KW 0.00 KW 0.00 KW	0.00 KW 0.00 KW 0.00 KW
93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108	0.00 KW 0.0 % 0.00 KW 0 U/min 0 U/min 0 U/min 0000 0000 0 U/min 0 U/min 0.96 bar 91.5 °C 0 U/min 0.96 bar 0 U/min	0.00 KW 0.0 % 0.00 KW 0 % 0 % 92.3 °C 92.3 °C 0 % 92.3 °C 0.0 % 10.9 % 0 % 10 % 0.0 %	Test AUS 0.000 V Test AUS 982.8 mbar 0.00 KW 0.0 % 0.0 s 6.00 ms 38.2 °C 25.0 % 11.7 % 92.3 °C 0.0 %	Test AUS ADP. i.O. Test AUS aus 0.00 KW aus 1001 0001 982.8 mbar 6.00 ms aus 5.5 % ein 0.00 s aus
110 111 112 113 114 115 116 117 118	0 U/min	0 %	15.3 %	982.8 mbar
120	0 U/min	496.0 Nm	19.3 Nm	ASR n.aktiv
121 122 123	0 U/min	496.0 Nm	19.3 Nm	kein Eingr.
124 125 126 127 128 129 130 131 132	Getriebe 1	ABS 1 Lenkwink. 1 Le	Kombi 1 Airbag 1 nkrad 1	Klima 1
133 134 135 136	91 °C	11.2 °C 10 %	38.2 °C aus	92.3 °C
137 138 139 140 141 142	aus 91.5 °C 75.6 °C 0 % 0.00 bar 100 %	Kompr. AUS 0.0 g/s 0.0 kg 49.50 bar 0 100.0 %	7.60 bar 0 km/h 0.0 kg 20.31 bar 0 3	0 % Test AUS Test AUS inaktiv ADP. i.O.
143 144 145	100 %	100.0 %	0.000 V	ADP. i.O.

146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 170 171 172 173 174 175 176 177 178 179 180 181 182	aus	aus	aus	aus
183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198	92.3 °C	0 %	0 U/min	5°DK
199 200 201	71 %	9	6.99 bar	0.493 V

```
0.0 % 0.0 %
5.90 ms 5.90 ms
                  0.6 %
202
      2.9 %
                   0 %
203
      0 U/min
                   65.53 kOhm -33.0 °C
204
      65.53 kOhm
                                                 Test AUS
205
      56.6 %
                   0.0 %
                              100.0 %
206
      0 %
                  0.0 %
                                          0.0 %
                              0 %
                  12460 km
207
      0000 0001
                                12460 km
                                                0000 0000
                           0 0
804 a
208
      0
                 0
                         0
                                       gesperrt
209
      0
                 0
                  0 %
210
                               0.0 mbar
      0 U/min
                                          0.00 KW
211
      0.0 g/s
                  0.0 g/s
                                        986.7 mbar
212
                              0 %
                                          0.0 %
      0 %
                  0.0 %
213
      0 %
                  200 %
                               0.0 mbar
214
      0.6 %
                  -0.2 %
                               0.0 %
215
      0.26293
                   0.26217
216
      0.00000
                   0.00000
                               0
                                           NA
217
      0.00000
                   0.00000
                               0
                                           NA
218
      0.00
                  -0.59
                              -0.13
                                          -0.82
219
      -0.26
                  0.06
                              298
                              9.7 °C
                                           9.7 °C
220
      -5.2 °C
                  -5.2 °C
                              35.2 °C
221
      27.0 °C
                   27.6 °C
                                           35.2 °C
      42.0 °C
                   42.0 °C
222
223
224
      0.4 %
                  0.5 %
                               -0.9 %
                                           0.7 %
225
      -1.0 %
                  0.3 %
                               0.0 °
                                          0.0 °
                               226
      12460 km
                   12460 km
                   0.01 mg/h
227
      0.05 mg/h
228
      2.055 V
                                0.0 °C
                                           0000 0000
                   2.060 V
                               0.0 °C
                                           0.0 °C
229
      38.2 °C
                   0.0 °C
230
      0.0 kg
                  0.0 kg
                              12460 km
231
      38.2 °C
232
                   0000 0100
                                -1.6 %
                                             2.8 %
233
      -1.1 %
                   3.9 %
                               -1.1 %
                                           3.9 %
                   0.6 %
234
      -0.8 %
                               -0.8 %
                                           0.6 %
235
      91.5 °C
                   92.3 °C
                               8.2 °C
                                           7.5 °C
                   92.3 °C
236
      92.3 °C
                               0.0 s
237
238
      0.860 V
                   4.199 V
239
      1.308 V
                   4.116 V
                                1.416 V
                                            4.107 V
240
      0 km/h
                   1111 0111
                                0000 0011
                                              0000 0000
241
      mec_open_cps
242
      efppwm_plaus
243
      no_error
244
      no_error
245
      no_error
246
      no_error
247
      no_error
248
      no_error
249
      no_error
250
                                      0.053 V
      0 %
251
      1.07 bar
                   5.15 bar
                                1.91 s 92.3 °C
252
                   173.89 bar
                                  655.35 s
                                           92.3 °C
      173.89 bar
253
      S62R7010 CB1A S0
254
      No AS active
```

Datum: 07.10.2010 21:08:39

Steuergerät

01 7E0 7E8 Motorelektronik

Diagnosedatensatz: VAG\SG\EV_ECM30TFS021XS85_001

Steuergeräteidentifikation

Teilenummer: 8E1910559F

Konfiguration: 0060 programmierbar

Systembezeichnung: 3.2I V6 FSI Gerätenummer: 64638 Importeursnummer: 444 Betriebsnummer: 02136

Lange Codierung: 0104010902070120 Hardwareteilenummer: 8E0907559J Seriennummer: XXXXXXXXXXXXXX

Herstellerwerk: SME-RBG
Fertigungsdatum: 25.06.07
Änderungsstand: --H21--Prüfstandnummer: 0394
Herstellernummer: 0442

Status des Flash: 0000 0000 1 1 0000 0000

Motor/Systemnummer: AUK

Fahrgestellnummer: Ex. 6

Fehlerspeicher

2 Fehler gespeichert

P0441 Tankentlüftungssystem Durchsatz fehlerhaft

0110 1000 unplausibles Signal

Bedingungen erfüllt

statisch

Warnlampe aus

P310B Kraftstoffniederdruckregelung Kraftstoffdruck außerhalb der Toleranz

0110 0110 Kurzschluss nach Plus

Bedingungen erfüllt

statisch

Warnlampe aus

P0441 Tankentlüftungssystem Durchsatz fehlerhaft

0000 1000 Fehlerstatus 5 dez Priorität

1 dez Häufigkeitszähler40 dez Verlernzähler12708 km Kilometerstand

00.00.00 Datum 00:00:00 Uhrzeit 704 U/min Drehzahl

109 mg/H Luftmasse pro Hub

73.5 °C Temperatur

Leerlauf Text aus Tabelle

15.7 % Last

0 km/h Geschwindigkeit

P310B	Kraftstoffniederdruckregelung	Kraftstoffdruck außerhalb der Toleranz
-------	-------------------------------	----------------------------------------

0000 0001 Fehlerstatus
5 dez Priorität
1 dez Häufigkeitszähler
40 dez Verlernzähler
12708 km Kilometerstand
00.00.00 Datum
00:00:00 Uhrzeit

00:00:00 Uhrzeit 704 U/min Drehzahl

109 mg/H Luftmasse pro Hub 90.0 °C Temperatur

Leerlauf Text aus Tabelle

4.2 bar Druck

0 km/h Geschwindigkeit

1 2 3 4 5 6 7	0 U/min 0 U/min 0 U/min 0 U/min 0 U/min 0 U/min	75.0 °C 0 % 982.8 mbar 12.036 V 0 % 0 %	5.54 ms 5.1 % 75.0 °C	0.0 % 985.6 mbar -0.0 °v.OT 42.7 °C -3.0 %
8 9 10 11 12 13	63.0 mm 0 U/min 0 U/min	46.0 mm 0 % 75.0 °C	0 5.1 % 42.7 °C	0 -0.0 °v.OT -0.0 °v.OT
14 15 16 17	0 U/min 0 0	0 % 0 0 0 0	gest gest	gesperrt perrt perrt
18 19	0 U/min	0 U/min	0 %	0 %
20 21 22 23 24 25	0.00 KW 0.00 KW 0 U/min 0 U/min 0 U/min	0.00 KW 0.00 KW 0 % 0 % 0 %	0.00 KW 0.00 KW 0.00 KW 0.00 KW	
26 27 28 29	4.004 V 4.004 V 0 U/min	4.004 V 4.004 V 0 %	4.004 V 75.0 °C	4.004 V Test AUS
30 31 32 33	0 0100 1.00008 2.1 % 0.0 %	1.00008 2.9 %	0 010 1.00008 -1.1 % 0.0 %	00 0100 1.00008 0.6 % 2.060 V

34 35 36 37 38 39 40	0 U/min 0 U/min 0.429 V 0 % 0 % 0.0 g/s	0.429 V	0.424 V	Test AUS
41 42 43 44 45	0 Ohm 0 Ohm 0 U/min 0 U/min	Hzg. vK. EIN	65.53 kg 0.429 V	Ohm Hzg. nK. EIN Ohm Hzg. nK. EIN aus aus
46 47 48 49	0 U/min 0 U/min	-33.0 °C -33.0 °C		Test AUS Test AUS
50 51 52	0 U/min 0 U/min	730 U/min 730 U/min	aus 0	Kompr. AUS 12.036 V
53 54 55 56 57 58	0 U/min 0 U/min 0 U/min 0 U/min 0 U/min 0 U/min	(0 % 29.8 Nm 0.0 Nm Kompr. A	00 0000 00 0000
59 60 61 62 63 64 65	15.3 % 0 U/min 15.3 % 14.9 % 0.527 V	85.9 % 12.036 V 85.9 % 89.4 % 4.510 V	0 0.0 % 14.9 % 0.781 V	ADP. i.O. 00 0000 7.5 % gelernt 4.251 V
66 67 68	0 km/h0 U/min	0000 1000 0000 1000 0 %	0 km/h	1000 0001 WK auf
69 70 71 72 73 74 75 76 77 78 79 80 81 82 83	0 % Reed auf	0.0 %		Test AUS Fest AUS
84 85 86 87 88 89	12700 km 0000 0000 0000 0000 1100 1111 0 km	54 1111 1111 0000 1000 0010 1101 zu klein	298 0001 1 0000 00 1100 10	0000 0000

90 91 92	0 U/min 0 U/min 0 U/min	0 % 0 % 0 %	0.00 KW 0.00 KW 0.00 KW	0.00 KW 0.00 KW 0.00 KW
93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110	0.00 KW 0.0 % 0.00 KW 0 U/min 0 U/min 0 U/min 0 U/min 6.08 bar 75.0 °C 0 U/min 6.08 bar 0 U/min	0.00 KW 0.0 % 0.00 KW 0 % 0 % 75.0 °C 75.0 °C 0.0 % 10.9 % 0 % 10 % 0.0 %	Test AUS 0.000 V Test AUS 982.8 mbar 0.00 KW 0.0 % 0.0 s 5.56 ms 42.7 °C 25.0 % 11.7 % 75.0 °C 0.0 %	Test AUS ADP. i.O. Test AUS aus 0.00 KW aus 1001 0001 982.8 mbar 5.56 ms ADP. läuft 5.5 % ein 1.99 s aus
112 113 114 115 116 117 118	0 U/min	0 %	15.3 %	982.8 mbar
120	0 U/min	496.0 Nm	19.3 Nm	ASR n.aktiv
121 122 123 124	0 U/min	496.0 Nm	19.3 Nm	kein Eingr.
124 125 126 127 128 129 130 131 132	Getriebe 1	ABS 1 Lenkwink. 1 Le	Kombi 1 Airbag 1 nkrad 1	Klima 1
134 135	75 °C	11.2 °C 10 %	42.7 °C	75.0 °C
136 137 138 139 140 141 142 143 144 145	aus 75.0 °C 75.6 °C 0 % 0.00 bar 100 %	Kompr. AUS 0.0 g/s 0.0 kg 55.00 bar 0 100.0 %	aus 7.40 bar 0 km/h 0.0 kg 27.48 bar 0 3 0.009 V 0.000 V	0 % Test AUS Test AUS inaktiv ADP. i.O.

146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171	aus	aus	aus	aus
172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197	75.0 °C	0 %	0 U/min	5°DK
199 200 201	71 %	9	6.99 bar	2.534 V

```
0.0 % 0.0 %
5.58 ms 5.58 ms
                  0.6 %
202
      2.9 %
                   0 %
203
      0 U/min
                   65.53 kOhm -33.0 °C
204
      65.53 kOhm
                                                 Test AUS
205
      34.3 %
                   0.0 %
                              100.0 %
206
      0 %
                  0.0 %
                                          0.0 %
                              0 %
                  12460 km
207
      0000 0001
                                12460 km
                                                0000 0000
                           0 0
804 a
208
      0
                 0
                         0
                                       gesperrt
209
      0
                 0
                  0 %
210
                               0.0 mbar
      0 U/min
                                          0.00 KW
211
      0.0 g/s
                  0.0 g/s
                                        985.6 mbar
212
                              0 %
                                          0.0 %
      0 %
                  0.0 %
213
      0 %
                  200 %
                               0.0 mbar
214
      0.5 %
                  -0.2 %
                               0.0 %
215
      0.26293
                   0.26217
216
      0.00000
                   0.00000
                               0
                                           NA
217
      0.00000
                   0.00000
                               0
                                           NA
218
      0.00
                  -0.59
                              -0.13
                                          -0.82
219
      -0.26
                  0.06
                              298
                              9.7 °C
                                           9.7 °C
220
      -5.2 °C
                  -5.2 °C
                              35.2 °C
221
      27.0 °C
                   27.6 °C
                                           35.2 °C
      42.0 °C
222
                   42.0 °C
223
224
      0.4 %
                  0.5 %
                               -0.9 %
                                           0.7 %
225
      -1.0 %
                  0.3 %
                               0.0 °
                                          0.0 °
                               226
      12460 km
                   12460 km
                   0.01 mg/h
227
      0.05 mg/h
228
      2.060 V
                                0.0 °C
                                           0000 0000
                   2.060 V
                               0.0 °C
                                           0.0 °C
229
      42.7 °C
                   0.0 °C
230
      0.0 kg
                  0.0 kg
                              12460 km
231
232
      42.7 °C
                   0000 0100
                                -1.6 %
                                             2.8 %
233
      -1.1 %
                   3.9 %
                               -1.1 %
                                           3.9 %
234
      -0.8 %
                   0.6 %
                               -0.8 %
                                           0.6 %
235
      75.0 °C
                   75.0 °C
                               8.2 °C
                                           7.5 °C
236
      75.0 °C
                   75.0 °C
                               0.0 s
237
238
      0.860 V
                   4.199 V
      1.308 V
                   4.116 V
239
                                1.416 V
                                            4.107 V
240
      0 km/h
                   1111 0111
                                0000 0011
                                              0000 0000
241
      mec_open_cps
242
      efppwm_plaus
243
      no_error
244
      no_error
245
      no_error
246
      no_error
247
      no_error
248
      no_error
249
      no_error
250
                                      0.053 V
      0 %
251
      1.07 bar
                   1.03 bar
                                2.01 s 75.0 °C
252
                   173.89 bar
                                  655.35 s
                                           75.0 °C
      173.89 bar
253
      S62R7010 CB1A S0
254
      No AS active
```

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Vincent Mazaitis/OU=AA/O=USEPA/C=US

Sent: Thur 10/14/2010 10:48:25 AM

Subject: Bentley 15113 15113 10-13-10.pdf

Good morning Bob,

Please find enclosed the Laboratory Test Data for the Subject vehicle. If you have any questions or concerns, please contact me.

Thanks,

Vince Mazaitis

			NVFEL	Laboratory T	est Data			cvs
				ilts- Refer to VER	IFY Reports	for Official Data		
			2010-0276-005			Vehicle ID:		
Test Information	•		10/13/2010				BENTLEY MOT	
JINTED STATES	•	Start / Hot Soak:		7		MFR Codes:	165	BEX
6 00 3	Fu	uel Container ID:				Config #:	00	
E CONTRACTOR	1		61 Tier 2 Cert T			Transmission:	AUTO	
[NIZ 3	•	Test Procedure:	21 Federal fuel	2-day exhaust (w/	can loa	Shift Schedule:	A09980005	
The state of the s	Cald	culation Method:	Gasoline		E	Beginning Odometer:	005298.0 MI	
PROTE	Р	retest Remarks:				Drive Schedule:		
						Soak Period:		
		· · · · · · · · · · · · · · · · · · ·		* · · · · · · · · · · · · · · · · · · ·				
Bag Data		HC-FID	CO	NOx	<u>CO2</u>	CH4	NonMeth HC	
Phase 1		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	€	13.448	81.656	1.107	1.314	3.708	(1-1)	
Ambien		3.591	0.000	0.033	0.046	1.966		
Net Concentration	1	10.211	81.656	1.077	1.273	1.935	7.865	
						***************************************	,,,,,,	
	Remarks:							
Phase 2						v		
Sample	}	3.575	1.402	0.043	0.942	1.838		
Ambien		3.634	0.000	0.025	0.046	1.940		
Net Concentration	1	0.197	1,402	0.020	0.899	0.034	0.155	
				*****	7.000	4,001	0.100	
								•
	Remarks:							
Phase 3								
Sample	:	4.573	4,199	0.179	1.133	1.956		
Ambieni		4.628	0.000	0.027	0.046	2.011		
Net Concentration		0.337	4.199	0.154	1.091	0.115	0.197	
	-			••	1.001	V. 110	0.101	
	Remarks:							
hase 4								
Sample	1							
Ambient								
let Concentration								
	Remarks:							
esults		HC-FID	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
		(gom)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	Phase 1	0.185	2.989	0.058	732.1	0.041	0.143 / 0.148	12.057
	Phase 2	0.006	0.081	0.002	821.1	0.001	0.004 / 0.005	10.826
	Phase 3	0.006	0.152	0.002	619.7	0.001	0.004 / 0.003	14.341
			3	5,555	0.000	0.002	0.0047 0.004	14.541
							(NMOG=1.04xNMHC	١
	Weighted	0.04301	0.70427	0.01516	747.222		0.0329 / 0.0342	•
uel Economy		Gasoline MPG	J.1 V 1441	2.0 10 10	, 71,EEC	Dyno Settings	Dyno #:	
	Phase 1	12.05				DAMO SERVITOS	•	
	Phase 2	10.82					Inertia:	
	Phase 3	14.33					EPA Set Co A:	
	1 11030 3	17.33					EPA Set Co B:	
						4	EPA Set Co C:	0.02181
	Weighted	11.87	•	•		•	Coulos Danale	DOOR
101007 - d005 EF	PAVDAEm1010			Dono 1 of 0	*		Emiss-Bench:	
io iour - good Et	VADVEILLIO IC	/ 10 100 4 0 1		Page 1 of 2			Print Tin	ne 13-Oct-2010 11:

06/20/2017

		***		Laboratory T				cvs
		Test Number: 20		ts- Refer to VER	IFY Reports for	Official Data Vehicle ID): 15113	
Results Output ED STATES Out	Phase 1 Phase 2 Phase 3	HC-FID (grams) 0.662 0.022 0.022	CO (grams) 10.686 0.312 0.543	<u>NOx</u> (grams) 0.207 0.007 0.029	CO2 (grams) 2617.2 3147.3 2217.8	<u>CH4</u> (grams) 0.145 0.004 0.009	NMHC (grams) 0.510 0.017 0.013	Meth Respoi 1.212
est Conditions	Avg Cel De ecific Humidi No CO2	rometer (inHg) Il Temp (degF) w Point (degF) ity (grains/lbm) Ox Corr Factor Dilution Factor nix (scf @68F)	Phase 1 29.06 75.23 47.28 49.73 0.8939 10.127 3969.34	Phase 2 29.06 75.29 47.19 49.59 0.8933 14.224 6755.66	Phase 3 29.06 75.38 47.64 50.44 0.8965 11.820 3925.20	Phase 4		
	CVS Flow R	ate Avg (scfm)	469.56	466.12	465.44			
	Phas Di	an Placement: O se Time (secs) istance (miles) sis Time (secs)	ne Fan - Up - F 507.20 3.575 76.4	Front 869.59 3.833 73.6	506.00 3.579 74.0			
								,
FR Test Results	fc	or Procedure 21 F	ederal fuel 2-d	ay exhaust (w/ca	n load)			
<u>MFF</u>	R Number 1E+07	<u>HC</u> 0.0345	<u>CO</u> 0.5654	<u>NOx</u> 0.0142	<u>CO2</u> 695	NMOG 0	NonMeth HC 0.0247	
	<u>Odometer</u> 4951 M	MPG 12.8 IPG is 7.83 % hig	her than FPA I	MPG	MFR Lab: Dyno:	Bentley Motors	Limited	
		ited the data in ac			Fuel:	61 Tier 2 Cert (Gasoline	
	Validated By					0/13/10		

10/13/2010 11:51 AM

v101007 - d005 EPAVDAEm101013103401

20080609183200

Page 2 of 2

VTAURdxxx.xls

Print Time 13-Oct-2010 11:51

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: CN=Tom Ball/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim

Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Vincent

Mazaitis/OU=AA/O=USEPA/C=US@EPA;CN=Kim

Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Bruce

Garrison/OU=AA/O=USEPA/C=US@EPA;CN=Mark

Maury/OU=AA/O=USEPA/C=US@EPA;CN=JohnH White/OU=AA/O=USEPA/C=US@EPA[];

N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Arvon

Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim

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N=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom

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N=Vincent Mazaitis/OU=AA/O=USEPA/C=US@EPA;CN=Kim

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N=Kim Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Bruce

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N=Mark Maury/OU=AA/O=USEPA/C=US@EPA;CN=JohnH

White/OU=AA/O=USEPA/C=US@EPA[]; N=JohnH White/OU=AA/O=USEPA/C=US@EPA[]

Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 10/14/2010 4:58:12 PM

Subject: Preliminary reply

Hi, Sebastian.

Thank you for your two letters, one asking for additional preconditioning and the other requesting approval for a revised vehicle preparation and preconditioning procedure. I am currently preparing letters replying to your questions. However, because the timing on these subjects is somewhat urgent, I am responding informally via e-mail and will respond with letters shortly.

In response to the request for preconditioning, we will not allow the additional preconditioning. Among other reasons, the request for preconditioning was limited to vehicles from model year 2007 and earlier. The current class is a 2008 model year test group.

Regarding the revised vehicle preparation and preconditioning procedure, we suggest a slightly different procedure than the one that you proposed: The vehicle will be run until the engine stalls. The vehicle will immediately be refilled with a gallon of indolene and the engine will be started and idled for five minutes to minimize the effect of the air trapped in the fuel system.

A second drain and fill will be conducted in the same way, however, the order of the second drain and fill in the FTP will change. The second drain and fill will come after the vehicle soak and before the preconditioning drive. This will give time for any air that may have been introduced into the fuel lines to be purged during the preconditioning drive. Because this preconditioning will occur after the drain and fill, EPA will not run an additional cold start FTP-72 as requested in your letter.

I apologize for this informal response to your letters and will follow up with a more formal response soon.

Please call if you have any questions.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

To: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Bruce

Garrison/OU=AA/O=USEPA/C=US@EPA;CN=Jim

Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;CN=JohnH White/OU=AA/O=USEPA/C=US@EPA;CN=Kim

Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Mark

Maury/OU=AA/O=USEPA/C=US@EPA;"Berenz, Sebastian" [Sebastian.Berenz@vw.com];

N=Bruce Garrison/OU=AA/O=USEPA/C=US@EPA;CN=Jim

Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;CN=JohnH White/OU=AA/O=USEPA/C=US@EPA;CN=Kim Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Mark

Maury/OU=AA/O=USEPA/C=US@EPA;"Berenz, Sebastian" [Sebastian.Berenz@vw.com]; N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;CN=JohnH White/OU=AA/O=USEPA/C=US@EPA;CN=Kim Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Mark

Maury/OU=AA/O=USEPA/C=US@EPA;"Berenz, Sebastian" [Sebastian.Berenz@vw.com];

N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=JohnH

White/OU=AA/O=USEPA/C=US@EPA;CN=Kim

Cieslak/OU=AA/O=USEPA/C=US@EPA;CN=Mark

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N=Mark Maury/OU=AA/O=USEPA/C=US@EPA; "Berenz, Sebastian"

[Sebastian.Berenz@vw.com]; Berenz, Sebastian" [Sebastian.Berenz@vw.com]; N=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Vincent

Mazaitis/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Vincent

Mazaitis/OU=AA/O=USEPA/C=US@EPA[]; N=Vincent

Mazaitis/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Tom Ball/OU=AA/O=USEPA/C=US

Sent: Thur 10/14/2010 5:15:10 PM

Subject: Re: Preliminary reply

Lynn,

Make sure we get agreement with them on the drain & fill procedures.

Tom

From: Lynn Sohacki/AA/USEPA/US

To: "Berenz, Sebastian" < Sebastian. Berenz@vw.com>

Cc: Tom Ball/AA/USEPA/US@EPA, Stephen Healy/AA/USEPA/US@EPA, Arvon

Mitcham/AA/USEPA/US@EPA, Tom Anderson/AA/USEPA/US@EPA, Joel Ball/AA/USEPA/US@EPA, Jim Snyder/AA/USEPA/US@EPA, Vincent Mazaitis/AA/USEPA/US@EPA, Kim Cieslak/AA/USEPA/US@EPA, Bruce Garrison/AA/USEPA/US@EPA, Mark Maury/AA/USEPA/US@EPA, JohnH White/AA/USEPA/US@EPA

Date: 10/14/2010 12:58 PM Subject: Preliminary reply

Hi, Sebastian.

Thank you for your two letters, one asking for additional preconditioning and the other requesting approval for a revised vehicle preparation and preconditioning procedure. I am currently preparing letters replying to your questions. However, because the timing on these subjects is somewhat urgent, I am responding informally via email and will respond with letters shortly.

In response to the request for preconditioning, we will not allow the additional preconditioning. Among other reasons, the request for preconditioning was limited to vehicles from model year 2007 and earlier. The current class is a 2008 model year test group.

Regarding the revised vehicle preparation and preconditioning procedure, we suggest a slightly different procedure than the one that you proposed: The vehicle will be run until the engine stalls. The vehicle will immediately be refilled with a gallon of indolene and the engine will be started and idled for five minutes to minimize the effect of the air trapped in the fuel system.

A second drain and fill will be conducted in the same way, however, the order of the second drain and fill in the FTP will change. The second drain and fill will come after the vehicle soak and before the preconditioning drive. This will give time for any air that may have been introduced into the fuel lines to be purged during the preconditioning drive. Because this preconditioning will occur after the drain and fill, EPA will not run an additional cold start FTP-72 as requested in your letter.

I apologize for this informal response to your letters and will follow up with a more formal response soon.

Please call if you have any questions.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

To: Lynn Sohacki/AA/USEPA/US@EPA[] From: "Berenz, Sebastian" Sent: Thur 10/14/2010 10:32:28 PM Subject: 8ADXV03.1374 Confirmatory Testings EPA requested test procedure confirmatory program V2.pdf sebastian.berenz@vw.com
Hello Lynn,
As we discussed today I prepared a new flow chart as a basis of our meeting tomorrow.
We are fine with two drains and refills directly after another.
Our mayor concern is still the start adaption. So we just want to make sure that whenever there is a drain, the engine is warmed up and that we get the chance to look at the adaption values.
As I promised here is a short description about what we look at:
Our values are in the table 104 (Messwerteblock) of the printout.
In this block it shows 4 values.
1. value: Engine temperature in the moment
2. value: fuel injection factor in the temperature range of -10°C to 0°C
3. value: fuel injection factor in the temperature range of 0°C to 17°C
4. value: fuel injection factor in the temperature range of 17°C to 60°C
It would be great if we can talk about the procedure tomorrow. I will be there about 9.30 am and Marc will join the guys in the shop about 8 am.
Thank you very much.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance

Enviromental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211

Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: Lynn Sohacki/AA/USEPA/US@EPA[]
From: "Berenz, Sebastian"
Sent: Fri 10/15/2010 9:52:30 PM
Subject: 8ADXV03.1374 Confirmatory Testings EPA
requested test procedure confirmatory program V3.pdf
sebastian.berenz@vw.com

Hello Lynn,

Attached you will find the updated version of the flow chart with what we discussed.

I hope I have everything included.

Please let me know if there needs to be something changed or added.

I will be in Ann Arbor at Monday morning about 8.00 am.

Thank you very much.

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211

Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

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P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

VW FOIA, EPA

2

06/20/2017

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: Vincent Mazaitis/AA/USEPA/US@EPA[]

From: "Berenz, Sebastian"

Sent: Mon 10/18/2010 10:11:19 PM

Subject: RE: 8ADXV03.1374 Confirmatory Testings EPA requested test procedure confirmatory program V4.pdf

Hello Lynn,

I updated the flow chart again in order to follow what I discussed with Vince.

I will be in Ann Arbor tomorrow morning as well. If you have any questions, just let me know.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Monday, October 18, 2010 9:29 AM

To: Berenz, Sebastian

Subject: Re: 8ADXV03.1374 Confirmatory Testings EPA

Hi, Sebastian.

I reviewed the updated version of the flow chart that you attached to the e-mail and it does reflect all of the changes that we discussed. I will forward the procedure to URS.

Thank you!

VW FOIA, EPA

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

1

06/20/2017

2017-FFP 001720

From: "Berenz, Sebastian" < Sebastian. Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 10/15/2010 05:53 PM

Subject: 8ADXV03.1374 Confirmatory Testings EPA

Hello Lynn,

Attached you will find the updated version of the flow chart with what we discussed.

I hope I have everything included.

Please let me know if there needs to be something changed or added.

I will be in Ann Arbor at Monday morning about 8.00 am.

Thank you very much.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT! [attachment "requested test procedure confirmatory program V3.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 10/19/2010 1:49:44 PM **Subject:** Re: Bentley Mulsanne Tests

I talked to the lab and they will put the charger on it.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA
Cc: Vincent Mazaitis/AA/USEPA/US@EPA

Date: 10/15/2010 07:32 AM Subject: Bentley Mulsanne Tests

Hello Jim,

Bentley has requested a retest for the FTP and US06 tests. Please let me know when the tests have been scheduled.

Bentley has accepted the highway test results.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
From: "Rhodes, Brian"
Sent: Tue 10/19/2010 3:03:23 PM
Subject: Updated Vehicle Test Parameters

In-Use Parameters Form N001RXX-0018C.pdf
In-Use Parameters Form N001RXX-0043c- Ex. 6

In-Use Parameters Form N001RXX-0055C.pdf

sebastian.berenz@vw.com http://www.volkswagen.com

Hello Lynn,

Attached you will find the updated test parameters for all three Audis.

I changed the statement if a car is an front wheel drive or an all wheel drive.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 Phone: (248) 754-4211

Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number	••	N001RXX-00	18C]	
Equivalent Test Weight:			4000	0 Pounds			
Nominal Fuel Tank Capacity:			16.	6 Gallons	40% Fill	6.64 Gallons	
Drive Axle:		all wheel drive	е	Front, Re	ar or All whe	el drive	
Tire Pressure:		see sticker or	n driver	sicPSI			
Mfr. Shift Schedule (if require	ed)	n.a. F	TP	n.a.	HWY	n.a. US06	
Vehicle Target Road-Load Co	efficients	V	ehicle	Set Road-	Load Coeff	ficients	
A 30.8	Lb-force			Α		Lb-force	
B 0.311	Lb-force*	mph		В		Lb-force*mph	
c 0.177	Lb-force*	mph^2		С		Lb-force*mph ²	
Does this vehicle qualify for relaxed	in-use stand	dards as set for	th in 40	CFR 86.181	1-04(p)?	N (Y/N)	
Vehicle Starting Instructions,	including	Traction Co	ontrol	disabling:			
After starting the vehicle press ESP-Button	and keep pres	sing for 3 second	to disable	the traction co	ntrol.		
To avoid unnecessary delays, please provid	de specific insti	ructions and pictur	es (if nec	essary) for the	following items:		
Canister Loading Process:	see attached	manual					
Fuel Draining Process:	see attached	manual					
ABS Disabling Process:	n/a						
Fuel Switch Process (Flex Fuel o	only):	n.a.					$\bar{egin{array}{c} egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{array}{c} arra$
Comments:							٦
	F	or internal EPA	موا ا	nlv:			_
This information was obtained from: * Letter, e-mail, fax or other docu (attach an * Verbal instruction from the man * Other (specify)	ument delivered y additional info	from the manufactor	ırer				
Manufacturer Representative:					Date:	:	_
EG&G Representative:					Date:	:	_

EPA Representative:	Date:	



EPA Vehicle Control Number:

National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

N001RXX-0043c

Equivalent Test Weight:			4000.	0 Pounds			
Nominal Fuel Tank Capacity	•		18.	5 Gallons	40% Fill	7.4	Gallons
Drive Axle:		front whee	l drive	Front, Re	ar or All whe	eel drive	
Tire Pressure:	see sticker	on driver	siPSI				
Mfr. Shift Schedule (if requir	ed)	n.a.	FTP	n.a.	HWY	n.a.	US06
Vehicle Target Road-Load C	oefficients	S	Vehicle	Set Road-	Load Coef	ficients	
A 37.77	Lb-force			Α		Lb-force	
в 0.4667	Lb-force*	mph	I	В		Lb-force*	mph
c 0.0182	Lb-force*	mph ²	•	С		Lb-force*	mph^2
Does this vehicle qualify for relaxed	d in-use star	ıda rds as se	t forth in 4	0 CFR 86.18	311-04(p)?	N	(Y/N)
Vehicle Starting Instructions.	, including	g Traction	Control	disabling:			
After starting the vehicle press ESP-Buttor	n and keep pre	ssing for 3 sec	ond to disabl	le the traction o	control.		
To avoid unnecessary delays, please prov Canister Loading Process:	ide specific ins	structions and p	oictures (if ne	cessary) for th	e following item	s:	
Ford Books in the Books of	see attached	manual					
Fuel Draining Process:	see attached	manual					
ABS Disabling Process:	n/a						
Fuel Switch Process (Flex Fuel		n.a.					
Comments:							
	F	or internal E	PA Use C	only:			
This information was obtained from: * Letter, e-mail, fax or other doc (attach at * Verbal instruction from the mat * Other (specify)	cument delivere	d from the manu	ıfacturer				
Manufacturer Representative:					Date	:	
EG&G Representative:					Date	:	

EPA Representative:	Date:	



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number	r:	N001RXX-00)55C]	
Equivalent Test Weight :			4250	.0 Pounds			
Nominal Fuel Tank Capacity:			16	.6 Gallons	40% Fill	6.64 Gallor	าร
Drive Axle:		all wheel driv	⁄e	Front, Re	ar or All whe	el drive	
Tire Pressure:		see sticker o	n driver	sicPSI			
Mfr. Shift Schedule (if requir	ed)	n.a. F	TP	n.a.	HWY	n.a. US06	
Vehicle Target Road-Load Co	oefficients	V	Vehicle	Set Road-	Load Coeff	icients	
A 38.22	Lb-force			Α		Lb-force	
B 0.47	Lb-force*	mph		В		Lb-force*mph	
c 0.0172	Lb-force*	mph^2		С		Lb-force*mph ²	
Does this vehicle qualify for relaxed	in-use stand	dards as set fo	rth in 40	CFR 86.181	11-04(p)?	N (Y/N)	
Vehicle Starting Instructions,	including	Traction C	ontrol	disabling:			
After starting the vehicle press ESP-Button	and keep pres	sing for 3 second	l to disable	e the traction co	ontrol.		
To avoid unnecessary delays, please provid	de specific insti	ructions and pictu	ıres (if ned	cessary) for the	following items:		
Canister Loading Process:	see attached	manual					
Fuel Draining Process:	see attached	manual					
ABS Disabling Process:	n/a						
Fuel Switch Process (Flex Fuel o	only):	n.a.					
Comments:							
		an internal ED	A 1100 C	Smh ii			
This information was obtained from: * Letter, e-mail, fax or other door (attach an * Verbal instruction from the mar * Other (specify)	ument delivered y additional info	ormation from the n	turer				
Manufacturer Representative:					Date.		
EG&G Representative:					Date:		

EPA Representative:	Date:	

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Wed 10/20/2010 1:31:30 PM

Subject: In-use vehicles scheduled for next week

In-Use Parameters Form.xls

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N001RXX-0080C (2008 Audi/A6) - VIN# **Ex. 6** 10/27/10 (Wednesday) 0900 vehicle pick up

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.181104(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

1

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

VW FOIA, EPA

To: Lynn Sohacki/AA/USEPA/US@EPA[] From: "Berenz, Sebastian" Sent: Wed 10/20/2010 1:58:59 PM Subject: RE: In-use vehicles scheduled for next week In-Use Parameters Form N001RXX-0055C.pdf requested test procedure confirmatory program V4.pdf Hello Lynn, See attached files for the 4th cars coming in. We will be in Ann Arbor to do the inspection with you. Best regards. Sebastian Berenz Manager In-Use Emission Compliance **Environmental Engineering Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207 E-Mail: sebastian.berenz@vw.com http://www.volkswagen.com P Before you print it, think about your responsibility and commitment to the ENVIRONMENT! ----Original Message-----From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov] Sent: Wednesday, October 20, 2010 9:32 AM To: Berenz, Sebastian Subject: In-use vehicles scheduled for next week Hi, Sebastian. Listed below is the information for the vehicles that we have scheduled for next week. N001RXX-0080C (2008 Audi/A6) - VIN# Ex. 6 10/27/10 (Wednesday) 0900 vehicle pick up

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:		N001RXX-0055C]
Equivalent Test Weight :		4250	0.0 Pounds		
Nominal Fuel Tank Capacity:		16	6.6 Gallons	40% Fill	6.64 Gallons
Drive Axle:		all wheel drive	Front, Rea	ar or All whe	el drive
Tire Pressure:		see sticker on driver	· sicPSI		
Mfr. Shift Schedule (if require	ed)	n.a. FTP	n.a.	HWY	n.a. US06
Vehicle Target Road-Load Co	efficients	Vehicle	Set Road-I	Load Coeff	icients
A 38.22	Lb-force		Α		Lb-force
B 0.47	Lb-force*	mph	В		Lb-force*mph
c 0.0172	Lb-force*	mph ²	С		Lb-force*mph ²
Does this vehicle qualify for relaxed	in-use stan	dards as set forth in 4	0 CFR 86.181	1-04(p)?	N (Y/N)
Vehicle Starting Instructions,	including	Traction Control	disabling:		
After starting the vehicle press ESP-Button	and keep pres	sing for 3 second to disab	e the traction cor	ntrol.	
To avoid unnecessary delays, please provic	de specific inst	ructions and pictures (if ne	cessary) for the t	following items:	
Canister Loading Process:	see attached	manual			
Fuel Draining Process:	see attached	manual			
ABS Disabling Process:	n/a				
Fuel Switch Process (Flex Fuel of	only):	n.a.			
Comments:					
	F	or internal EPA Use	Only:		
This information was obtained from: * Letter, e-mail, fax or other docu (attach an) * Verbal instruction from the man * Other (specify)	ument delivered y additional info	from the manufacturer			
Manufacturer Representative:				Date:	
EG&G Representative:				Date:	

EPA Representative:	Date:	



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number	r:	N001RXX-00)55C]	
Equivalent Test Weight :			4250	.0 Pounds			
Nominal Fuel Tank Capacity:			16	.6 Gallons	40% Fill	6.64 Gallor	าร
Drive Axle:		all wheel driv	⁄e	Front, Re	ar or All whe	el drive	
Tire Pressure:		see sticker o	n driver	sicPSI			
Mfr. Shift Schedule (if requir	ed)	n.a. F	TP	n.a.	HWY	n.a. US06	
Vehicle Target Road-Load Co	oefficients	V	Vehicle	Set Road-	Load Coeff	icients	
A 38.22	Lb-force			Α		Lb-force	
B 0.47	Lb-force*	mph		В		Lb-force*mph	
c 0.0172	Lb-force*	mph^2		С		Lb-force*mph ²	
Does this vehicle qualify for relaxed	in-use stand	dards as set fo	rth in 40	CFR 86.181	11-04(p)?	N (Y/N)	
Vehicle Starting Instructions,	including	Traction C	ontrol	disabling:			
After starting the vehicle press ESP-Button	and keep pres	sing for 3 second	l to disable	e the traction co	ontrol.		
To avoid unnecessary delays, please provid	de specific insti	ructions and pictu	ıres (if ned	cessary) for the	following items:		
Canister Loading Process:	see attached	manual					
Fuel Draining Process:	see attached	manual					
ABS Disabling Process:	n/a						
Fuel Switch Process (Flex Fuel o	only):	n.a.					
Comments:							
		an internal ED	A Llas C	Smh			
This information was obtained from: * Letter, e-mail, fax or other door (attach an * Verbal instruction from the mar * Other (specify)	ument delivered y additional info	ormation from the n	turer				
Manufacturer Representative:					Date.		
EG&G Representative:					Date:		

EPA Representative:	Date:	

To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Berenz, Sebastian"

Sent: Wed 10/20/2010 7:01:35 PM

Subject: RE: In-use vehicles scheduled for next week

In-Use Parameters Form N001RXX-0080C.pdf

requested test procedure confirmatory program V4.pdf

Hello Lynn,

You are right. I'm very sorry I send you the wrong sheet.

Attached you will find the correct one.

There is no difference except the control number. Both cars are Audi A6 all wheel drives.

Sorry for that.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, October 20, 2010 2:58 PM

To: Berenz, Sebastian

Subject: RE: In-use vehicles scheduled for next week

Hi, Sebastian.

It was brought to my attention that the control number on the parameters sheet is incorrect (N001RXX-0055C instead of N001RXX-0080C). Is the information in the sheet also for N001RXX-0055C?

Lynn Sohacki

Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 10/20/2010 09:59 AM

Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

See attached files for the 4th cars coming in.
We will be in Ann Arbor to do the inspection with you.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, October 20, 2010 9:32 AM

To: Berenz, Sebastian

Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N001RXX-0080C (2008 Audi/A6) - VIN# **Ex. 6** 10/27/10 (Wednesday) 0900 vehicle pick up

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, EG&G, and lab personnel. Paper copies or e-mails sent directly to EG&G or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls) (See attached file: In-Use Parameters Form_N001RXX-0055C.pdf)(See attached file: requested test procedure confirmatory program V4.pdf)



EPA Vehicle Control Number:

National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

N001RXX-0080C

Equivalent Test Weight:			4250.	0 Pounds			
Nominal Fuel Tank Capacity:			16.	6 Gallons	40% Fill	6.64	Gallons
Drive Axle:		all wheel di	rive	Front, Re	ar or All whe	el drive	
Tire Pressure:		see sticker	on driver	siPSI			
Mfr. Shift Schedule (if required)		n.a.	FTP	n.a.	HWY	n.a.]US06
Vehicle Target Road-Load Coefficients			Vehicle	Set Road-	Load Coeff	ficients	
A 38.22	Lb-force			Α		Lb-force	
в 0.47	Lb-force*	mph		В		Lb-force*	'mph
c 0.0172	Lb-force*	mph ²	(с		Lb-force*	mph ²
Does this vehicle qualify for relaxed	d in-use stan	ıda rds as set	forth in 4	0 CFR 86.18	311-04(p)?	N	_(Y/N)
Vehicle Starting Instructions	, including	g Traction	Control	disabling:			
After starting the vehicle press ESP-Buttor	n and keep pre	ssing for 3 seco	ond to disab	le the traction o	ontrol.		
To avoid unnecessary delays, please prov Canister Loading Process:			ictures (if ne	cessary) for the	e following item	s:	
Fuel Draining Process:	see attached manual						
ABS Disabling Process:	n/a						
Fuel Switch Process (Flex Fuel		n.a.					
Comments:							
	F	or internal E	PA Use C	Only:			
This information was obtained from: * Letter, e-mail, fax or other doc (attach at * Verbal instruction from the mat * Other (specify)	ny additional inj	formation from t		rer to this form)			
Manufacturer Representative:							
EG&G Representative:					Date:		

EPA Representative:	Date:	

To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Berenz, Sebastian"

Sent: Thur 10/21/2010 7:36:00 PM

Subject: N001RXX-0018C

In-Use Parameters FormV2 N001RXX-0018C.pdf

sebastian.berenz@vw.com

Hello Lynn,

I have attached I have an updated version of the cars parameters.

You are right with the desmo.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!



EPA Vehicle Control Number:

National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

N001RXX-0018C

					_
Equivalent Test Weight:		400	00.0 Pounds		
Nominal Fuel Tank Capacity:		,	16.6 Gallons	40% Fill	6.64 Gallons
Drive Axle:		all wheel drive	Front, Re	ar or All whe	el drive
Tire Pressure:		see sticker on driv	er si PSI		
Mfr. Shift Schedule (if require	ed)	n.a. FTP	n.a.	HWY	n.a. US06
Vehicle Target Road-Load Coefficients Vehicle Set Road-Load Coefficients					
A 30.8	Lb-force		Α		Lb-force
B 0.311	Lb-force*	mph	В		Lb-force*mph
C 0.0177	Lb-force*	mph ²	С		Lb-force*mph ²
Does this vehicle qualify for relaxed	l in-use stan	ndards as set forth in	40 CFR 86.18	11-04(p)?	<u>N</u> (Y/N)
Vehicle Starting Instructions,	including	g Traction Contro	ol disabling:		
After starting the vehicle press ESP-Button	and keep pres	ssing for 3 second to dis	able the traction c	ontrol.	
To avoid unnecessary delays, please provid	de specific ins	tructions and pictures (if	necessary) for the	following items	:
Canister Loading Process:	see attached	manual			
	see attached	manaar			
Fuel Draining Process: see attached manual					
ABS Disabling Process:	n/a				
•	n/a				
Fuel Switch Process (Flex Fuel	only):	n.a.			
Comments:					
Comments.					
	F	or internal EPA Use	e Only:		
This information was obtained from: * Letter, e-mail, fax or other documents.	ment delivered	from the manufacturer			
· · · ·		rmation from the manufac	turer to this form)		
Verbal instruction from the manuOther (specify)	ufacturer's repre	esentative			
Manufacturer Representative:				Date:	
EG&G Representative:				Date:	

EPA Representative:	Date:	

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 10/21/2010 7:41:41 PM

Subject: Re: N001RXX-0018C sebastian.berenz@vw.com

Thank you!

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 10/21/2010 03:37 PM Subject: N001RXX-0018C

Hello Lynn,

I have attached I have an updated version of the cars parameters. You are right with the desmo.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT! [attachment "In-Use Parameters FormV2_N001RXX-0018C.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Berenz, Sebastian"

Sent: Thur 10/21/2010 8:09:32 PM

Subject: A6 quattro updates

In-Use Parameters FormV2 N001RXX-0080C.pdf In-Use Parameters FormV2 N001RXX-0055C.pdf sebastian.berenz@vw.com

Hello Lynn,

I had to update the A6 quattro parameters as well. The weight wasn't correct in it.

Attached you will find the updated versions.

Sebastian Berenz

Manager In-Use Emission Compliance

Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

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National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

N001RXX-0080C

Equivalent Test Weight:	4500	0.0 Pounds		
Nominal Fuel Tank Capacity:	10	6.6 Gallons	40% Fill	6.64 Gallons
Drive Axle:	all wheel drive	Front, Rea	ar or All whe	el drive
Tire Pressure:	see sticker on drive	er si PSI		
Mfr. Shift Schedule (if required)	n.a. FTP	n.a.	HWY	n.a. US06
Vehicle Target Road-Load Coefficien	ts Vehicle	e Set Road-I	Load Coeff	icients
A 38.22 Lb-forc	2	Α		Lb-force
B 0.47 Lb-forc	e*mph	В		Lb-force*mph
c 0.0172 Lb-forc	e*mph ²	С		Lb-force*mph ²
Does this vehicle qualify for relaxed in-use st	anda rds as set forth in	40 CFR 86.18	11-04(p)?	N (Y/N)
Vehicle Starting Instructions, includi	ng Traction Contro	ol disabling:		
After starting the vehicle press ESP-Button and keep p	ressing for 3 second to disa	ble the traction c	ontrol.	
To avoid unnecessary delays, please provide specific Canister Loading Process: see attach		necessary) for the	following items	:
Fuel Draining Process:	ed manual			
ABS Disabling Process:				
Fuel Switch Process (Flex Fuel only):	n.a.			
Comments:				
	For internal EPA Use	Only:		
This information was obtained from: * Letter, e-mail, fax or other document deliv (attach any additional * Verbal instruction from the manufacturer's * Other (specify)	ered from the manufacturer			
Manufacturer Representative:			_ Date:	
EG&G Representative:			_ Date:	

EPA Representative:	Date:



National Vehicle and Fuel Emissions Laboratory 2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:		N001RXX-	0055C				
Equivalent Test Weight:			4500	0 Pounds			
Nominal Fuel Tank Capacity	:		16.	6 Gallons	40% Fill	6.64	Gallons
Drive Axle:		all wheel d	rive	Front, Re	ar or All whe	el drive	
Tire Pressure:		see sticker	on driver	siPSI			
Mfr. Shift Schedule (if required)		n.a.	FTP	n.a.	HWY	n.a.]US06
Vehicle Target Road-Load Co	oefficients	5	Vehicle	Set Road-	Load Coeff	icients	
A 38.22	Lb-force			Α		Lb-force	
B 0.47	Lb-force*	mph		В		Lb-force*	mph
c 0.0172	Lb-force*	mph ²		С		Lb-force*	mph ²
Does this vehicle qualify for relaxed	l in-use star	ıda rds as set	t forth in 4	0 CFR 86.18	311-04(p)?	N	_(Y/N)
Vehicle Starting Instructions,	including	g Traction	Control	disabling:			
After starting the vehicle press ESP-Button	and keep pre	ssing for 3 sec	ond to disab	le the traction o	ontrol.		
To avoid unnecessary delays, please provi	de specific ins	structions and p	ictures (if ne	cessary) for the	e following items	s:	
Canister Loading Process:	see attached manual						
Fuel Draining Process:	see attached	manual					
ABS Disabling Process:	n/a						
Fuel Switch Process (Flex Fuel	only):	n.a.					
Comments:							
	F:	or internal E	PA Use C)nlv:			
This information was obtained from: * Letter, e-mail, fax or other doc (attach ar * Verbal instruction from the ma * Other (specify)	cument delivere ny additional in	d from the manu	facturer				
Manufacturer Representative:							
EG&G Representative:					Date:		

EPA Representative:	Date:

From: Sent: Subject: In-Use Par In-Use Par In-Use Par In-Use Par sebastian.	Lynn Sohacki/AA/USEPA/US@EPA[] "Berenz, Sebastian" Thur 10/21/2010 8:38:43 PM FW: A6 quattro updates rameters FormV3 N001RXX-0055C.pdf rameters FormV3 N001RXX-0080C.pdf rameters FormV2 N001RXX-0018C.pdf rameters FormV2 N001RXX-0043c.pdf berenz@vw.com berenz@vw.com
STOP:	
Hello Lynn,	
	at all sheets again, I noticed that I send you the wrong versions for both A6 again.
	was wrong in the sheets. It needs to be 4250 lbs and not 4500 lbs. Sorry for that. Please take hed sheets V3.
That is for c	ar #0080 and #0055.
	ned the parameters for car #0018. There is no change in it! I just wanted to make sure that you pur data in one mail.
The big pro today.	blem is that for car #0043 we used the wrong parameters. The car has been already tested
I updated th	nem. See attached sheet V2.
Please let m	ne know want you decide on this.
·	ry for all that misunderstandings!
Sebastian	

Sebastian Berenz
Manager In-Use Emission Compliance
Enviromental Engineering Office
Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326
United States of America
Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207 E-Mail: sebastian.berenz@vw.com
http://www.volkswagen.com
P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!
From: Berenz, Sebastian Sent: Thursday, October 21, 2010 4:10 PM To: 'Sohacki.Lynn@epamail.epa.gov' Subject: A6 quattro updates
Hello Lynn,
I had to update the A6 quattro parameters as well. The weight wasn't correct in it.
Attached you will find the updated versions.

Sebastian Berenz

Manager In-Use Emission Compliance

Enviromental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

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National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

N001RXX-0055C

Equivalent Test Weight:			4250.0	Pounds					
Nominal Fuel Tank Capacity	•		16.6	Gallons	40% Fill	6.64	Gallons		
Drive Axle:		all wheel d	all wheel drive Front, Rear or All wheel drive						
Tire Pressure:		see sticker	see sticker on driver si PSI						
Mfr. Shift Schedule (if requir	ed)	n.a.	FTP	n.a.]HWY	n.a.]US06		
Vehicle Target Road-Load C	oefficients	S	Vehicle S	et Road-I	Load Coef	ficients			
A 38.22		А			Lb-force				
B 0.47	Lb-force*	[¢] mph	В			Lb-force*	mph		
c 0.0172	Lb-force*	mph ²	С			Lb-force*	mph^2		
Does this vehicle qualify for relaxed					11-04(p)?	N	_(Y/N)		
After starting the vehicle press ESP-Buttor	n and keep pre	essing for 3 seco	ond to disable	the traction co	ontrol.				
To avoid unnecessary delays, please prov Canister Loading Process:			ictures (if nec	essary) for the	following item	s:			
Fuel Draining Process:	see attached								
ABS Disabling Process:	n/a								
Fuel Switch Process (Flex Fuel	only):	n.a.							
Comments:									
	F	or internal E	PA Use Or	nly:					
This information was obtained from: * Letter, e-mail, fax or other doc	ny additional in	formation from t		er to this form)					
Manufacturer Representative:					_ Date	:			
EG&G Representative:					_ Date	:			

EPA Representative:	Date:	



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

N001RXX-0080C

Equivalent Test Weight :		4250.0	Pounds					
Nominal Fuel Tank Capacity	' :		16.6	Gallons	40% Fill	6.64	Gallons	
Drive Axle:		all wheel d	all wheel drive Front, Rear or All wheel drive					
Tire Pressure:		see sticker	see sticker on driver si PSI					
Mfr. Shift Schedule (if requir	red)	n.a.	FTP	n.a.]HWY	n.a.]US06	
Vehicle Target Road-Load C	oefficients	S	Vehicle S	Set Road-I	Load Coef	ficients		
A 38.22		A	\		Lb-force			
В 0.47	Lb-force*	*mph	Е	3		Lb-force*	mph	
c 0.0172	Lb-force*	*mph ²	C	:		Lb-force*	mph^2	
Does this vehicle qualify for relaxed Vehicle Starting Instructions					11-04(p)?	N	_(Y/N)	
After starting the vehicle press ESP-Buttor	n and keep pre	essing for 3 sec	ond to disable	the traction co	ontrol.			
To avoid unnecessary delays, please prov Canister Loading Process:	ride specific ins		oictures (if nec	essary) for the	following item	ns:		
Fuel Draining Process:	see attached	manual						
ABS Disabling Process:	n/a							
Fuel Switch Process (Flex Fuel	only):	n.a.						
Comments:								
	F	or internal E	:PA Use Oi	nly:				
This information was obtained from: * Letter, e-mail, fax or other do (attach a. * Verbal instruction from the ma * Other (specify)	ny additional in	nformation from t		er to this form)				
Manufacturer Representative:					_ Date	:		
EG&G Representative:					_ Date	:		

EPA Representative:	Date:	



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

N001RXX-0018C

Equivalent Test Weight:		4000.0	Pounds						
Nominal Fuel Tank Capacity	.		16.6	Gallons	40% Fill	6.64	Gallons		
Drive Axle:		all wheel d	all wheel drive Front, Rear or All wheel drive						
Tire Pressure:		see sticker	on driver	PSI					
Mfr. Shift Schedule (if requir	ed)	n.a.]FTP	n.a.	HWY	n.a.]US06		
Vehicle Target Road-Load C	\$	Vehicle S	Set Road-I	Load Coeff	icients				
A 30.8	Lb-force		P	A		Lb-force			
B 0.311	Lb-force*	mph	E	3		Lb-force*	mph		
C 0.0177	Lb-force*	mph ²	c	;		Lb-force*	mph ²		
Does this vehicle qualify for relaxed Vehicle Starting Instructions.				11-04(p)?	N	_(Y/N)			
After starting the vehicle press ESP-Button					ontrol.				
To avoid unnecessary delays, please provi Canister Loading Process:	de specific ins		ictures (if nec	essary) for the	following items	:			
Fuel Draining Process:	see attached	manual							
ABS Disabling Process:	n/a								
Fuel Switch Process (Flex Fuel	only):	n.a.							
Comments:									
	F	or internal E	PA Use O	nly:					
This information was obtained from: * Letter, e-mail, fax or other docu (attach any * Verbal instruction from the many * Other (specify)	v additional info	ormation from th		· to this form)					
Manufacturer Representative:					Date:				
EG&G Representative:	·								

EPA Representative:	Date:



National Vehicle and Fuel Emissions Laboratory

2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

N001RXX-0043c

Equivalent Test Weight:		3875.	0 Pounds		_		
Nominal Fuel Tank Capacity	:		18.		40% Fill	7.4	4 Gallons
Drive Axle:		front wheel	drive	Front, R	ear or All whe	el drive	
Tire Pressure:		see sticker	on driver	sPSI			
Mfr. Shift Schedule (if requir	ed)	n.a.	FTP	n.a.	HWY	n.a.	US06
Vehicle Target Road-Load Co	oefficients		Vehicle	Set Road	-Load Coeff	ficients	
A 31.92			Α		Lb-force		
в 0.235	Lb-force*	mph	1	В		Lb-force	*mph
c 0.0176	Lb-force*	mph^2	•	с		Lb-force	*mph ²
Does this vehicle qualify for relaxed	l in-use stan	ıda rds as set	t forth in 4	0 CFR 86.	1811-04(p)?	N	_(Y/N)
Vehicle Starting Instructions,	including	Traction	Control	disabling	g:		
After starting the vehicle press ESP-Buttor	and keep pre	ssing for 3 seco	ond to disab	le the traction	control.		
To avoid unnecessary delays, please provi			ictures (if ne	cessary) for t	he following item	s:	
Fuel Draining Process:	see attached	manual					
. u	see attached	manual					
ABS Disabling Process:	n/a						
Fuel Switch Process (Flex Fuel	only):	n.a.					
Comments:							
	F	or internal E	PA Use C)nlv:			
This information was obtained from: * Letter, e-mail, fax or other doc (attach ar * Verbal instruction from the ma * Other (specify)	d from the manu	facturer		ı)			
Manufacturer Representative:					Date:		
EG&G Representative:					Date:	·	

EPA Representative:	Date:

Subject: test parameter list Road parameters list.pdf sebastian.berenz@vw.com Hello Lynn, Attached you will find a list of all test parameters of all types of cars that are certified in the testgroup 8ADXV03.1374. I hope this fits into what you need. Is there a chance to get the results of the first A4 from yesterday? Thank you very much and sorry again for all that mistakes. Best regards. Sebastian Sebastian Berenz Manager In-Use Emission Compliance **Environmental Engineering Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487

To:

From:

Sent:

Lynn Sohacki/AA/USEPA/US@EPA[]

"Berenz, Sebastian" Fri 10/22/2010 2:56:48 PM

FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

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vehicle parameters

Testgroup: 8ADXV03.1374 EVAP Family: 8ADXR0140282

			transmission	tank capacity total [gallon]	40% tank capacity total [gallon]	weight [lbs]	Target Coeff A [lb-force]	Target Coeff B [lb-force*mph]	Target Coeff C [lb-force*mph²]
Audi	A4 Sedan	front wheel drive	automatic	18.5	7.4	3875	31.92	0.235	0.0176
Audi	A4 Sedan	all wheel drive	automatic	16.6	6.64	4000	37.77	0.467	0.0182
Audi	A4 Sedan	all wheel drive	manual	16.6	6.64	4000	30.8	0.311	0.0177
Audi	A4 Cabric	all wheel drive	automatic	16.6	6.64	4500	40.02	0.463	0.0177
Audi		front wheel drive	automatic	18.5	7.4	4000	31.92	0.235	0.0176
Audi	A4 Avant	all wheel drive	automatic	16.6	6.64	4250	37.77	0.467	0.0182
Audi		front wheel drive	automatic	18.5	7.4	4250	40.69	0.246	0.0171
Audi	A6 Sedan	all wheel drive	automatic	16.6	6.64	4250	38.22	0.47	0.0172
Audi	A6 Avant	all wheel drive	automatic	16.6	6.64	4500	38.22	0.47	0.0172

VWGoA EEO 10/22/2010 To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Fri 10/22/2010 3:02:11 PM
Subject: Re: test parameter list sebastian.berenz@vw.com

Thank you, Sebastian. This is just what I was looking for.

I think that I can get the official data to you but I have not received it yet.

Have a nice weekend!

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 10/22/2010 10:57 AM Subject: test parameter list

Hello Lynn,

Attached you will find a list of all test parameters of all types of cars that are certified in the testgroup 8ADXV03.1374.

I hope this fits into what you need.

Is there a chance to get the results of the first A4 from yesterday?

Thank you very much and sorry again for all that mistakes.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT! [attachment "Road parameters list.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: mike.hennard@VW.com[]

Cc: CN=Tom Ball/OU=AA/O=USEPA/C=US@EPA;CN=Arvon

Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA,CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[];

N=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Jim

Snyder/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Fri 10/22/2010 5:59:22 PM **Subject:** More information re the Audi Q7

mike.hennard@vw.com

Hi, Mike.

We are still waiting for some answers to questions regarding Q7 class that were brought up during our 7/29/10 meeting. Specifically, was the MIL on when VW recruited Ex. 6 Please give us a description of the fault that was recorded that led to the VW fix. What were the number of warranty claims for the component that was replaced on Ex. 6 ?

Thank you in advance for your answers.

Sincerely,

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

---- Forwarded by Lynn Sohacki/AA/USEPA/US on 10/22/2010 01:40 PM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Hennard, Mike" <mike.hennard@vw.com>

Date: 08/12/2010 04:27 PM

Subject: Re: VW Presentations - July 29

Hi, Mike.

We are wondering if you have answers to the other questions that we posed to VW during our meeting. Specifically, you were going to investigate whether the MIL was on or if any fault codes were set when VW recruited vehicle with VIN ending 1590 after it failed at EPA.

Thanks.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax) From: "Hennard, Mike" <mike.hennard@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>, "Johnson, Stuart"

<Stuart.Johnson@vw.com>
Date: 08/05/2010 09:33 AM
Subject: VW Presentations - July 29

Lynn:

As you requested, here are PDF format copies of presentation we gave in July 29th meeting at your office.

One additional question, can you supply EPA data sheet for 3.1L vehicles (similar to data sent for 4.2L vehicles). Michael Hennard Manager - Emissions Compliance EEO

Volkswagen Group of America 3800 Hamlin Road Auburn Hills, MI 48326

Telephone Number: 248 754 4202

Fax: 248 754 4207 mike.hennard@vw.com

[attachment "Meeting_EPA_Surveillance_8ADXV03 1374 work to EPA.pdf" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Surveillance_7ADXT04.2358 epa.pdf" deleted by Lynn

Sohacki/AA/USEPA/US]

To: mike.hennard@VW.com[]

Cc: CN=Tom Ball/OU=AA/O=USEPA/C=US@EPA;CN=Arvon

Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA,CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[];

N=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]; N=Jim

Snyder/OU=AA/O=USEPA/C=US@EPA[]

Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Fri 10/22/2010 5:59:22 PM **Subject:** More information re the Audi Q7

mike.hennard@vw.com

Hi, Mike.

We are still waiting for some answers to questions regarding Q7 class that were brought up during our 7/29/10 meeting. Specifically, was the MIL on when VW recruited Ex. 6 Please give us a description of the fault that was recorded that led to the VW fix. What were the number of warranty claims for the component that was replaced on Ex. 6

Thank you in advance for your answers.

Sincerely,

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

----- Forwarded by Lynn Sohacki/AA/USEPA/US on 10/22/2010 01:40 PM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Hennard, Mike" <mike.hennard@vw.com>

Date: 08/12/2010 04:27 PM

Subject: Re: VW Presentations - July 29

Hi, Mike.

We are wondering if you have answers to the other questions that we posed to VW during our meeting. Specifically, you were going to investigate whether the MIL was on or if any fault codes were set when VW recruited vehicle with VIN ending Ex. 6 after it failed at EPA.

Thanks.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Hennard, Mike" <mike.hennard@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Cc: "Kohnen, Christoph (VWGoA)" <christoph.kohnen@vw.com>, "Johnson, Stuart"

<Stuart.Johnson@vw.com> Date: 08/05/2010 09:33 AM Subject: VW Presentations - July 29

Lynn:

As you requested, here are PDF format copies of presentation we gave in July 29th meeting at your office.

One additional question, can you supply EPA data sheet for 3.1L vehicles (similar to data sent for 4.2L vehicles). Michael Hennard Manager - Emissions Compliance EEO

Volkswagen Group of America 3800 Hamlin Road Auburn Hills, MI 48326

Telephone Number: 248 754 4202

Fax: 248 754 4207 mike.hennard@vw.com

[attachment "Meeting_EPA_Surveillance_8ADXV03 1374 work to EPA.pdf" deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Surveillance_7ADXT04.2358 epa.pdf" deleted by Lynn

Sohacki/AA/USEPA/US]

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Mon 10/25/2010 5:42:31 PM

Subject: N001-0043c data with incorrect weight

N001RXX-0043C.pdf (embedded image)

Hi, Sebastian.

Here is the data for the above vehicle. As I mentioned, this data will be completely replaced by the next test which will be run with the correct weight.

Please let me know if you have any questions.

Regards,

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

Sample Ambient et Concentration Remarks:		NVFEL Laboratory Test Data CVS								
Test Delic 10/21/2010 MFR Name AUD				Test Number:		aboratory res	t Results	Vehicle ID:	N001RXX-0043	С
Fast Procedure: 21 Feb Fuel 2-day Exhaust (CAN LOAD)(tip Preleaf Augustuous) Calculation Method: Gasoline Sasoline Segimning Odomelar: (hp3bag Soak Period: 29.6 hours	Test Infor	mation								
Fast Procedure: 21 Feb Fuel 2-day Exhaust (CAN LOAD)(tip Preleaf Augustuous) Calculation Method: Gasoline Sasoline Segimning Odomelar: (hp3bag Soak Period: 29.6 hours	SITED S	TAN	Key S	tart / Hot Soak:	13:11:48 / 09:48			MFR Codes:	640	ADX
Fast Procedure: 21 Feb Fuel 2-day Exhaust (CAN LOAD)(tip Preleaf Augustuous) Calculation Method: Gasoline Sasoline Segimning Odomelar: (hp3bag Soak Period: 29.6 hours	S. O. C.	1.00	Fue	el Container ID:	F00023			Config #:	00	
Fast Procedure: 21 Feb Fuel 2-day Exhaust (CAN LOAD)(tip Preleaf Augustuous) Calculation Method: Gasoline Sasoline Segimning Odomelar: (hp3bag Soak Period: 29.6 hours	IN SERVICE SERVICE			Fuel Type:	61 Tier 2 Cert Te	st Fuel		Transmission:	AUTO	
Pretest Remarks:	13 7		Т	est Procedure:	21 Fed Fuel 2-da	y Exhaust (CA				
Scale Period: 29.6 hours	Ser.	, et e	Calcu	ulation Method:	Gasoline			Beginning Odometer:	007933.0 MI	
Base HC-FID CO NOx CO2 CH4 NonMeth HC NonMeth HC (ppmC)	PR(PR(OTES	Pro	etest Remarks:						
Name 1			*				MOTOR STATE OF STATE	Soak Period:	29.6 hours	
Name 1	Dan Bata	- West State of the State of th	anna samuna anna anna anna a	LIC EID		NOV	CO2	CHA	NonMoth UC	Cr. V. Co. Co. Co. Co. Co. Co. Co. Co. Co. Co
Sample				COMPANDAMENTAL STREET						
Ambient 2.468 0.000 0.005 0.042 1.886 let Concentration 16.750 39.882 2.129 1.003 1.577 14.948 Remarks: Remarks: Ambient 2.346 0.184 0.214 0.667 1.802	Bull Charles and Control of the Cont	Sample							(pp)	
Remarks:	1									
Remarks: hase 2 Sample									14.948	
Name 2 Sample 2.346 0.184 0.214 0.667 1.802 Ambient 2.429 0.000 0.007 0.042 1.885 et Concentration 0.037 0.184 0.207 0.628 0.010 0.026					(· · · · · · · · · · · · · · · · · · ·					
Name 2 Sample 2.346 0.184 0.214 0.667 1.802 Ambient 2.429 0.000 0.007 0.042 1.885 et Concentration 0.037 0.184 0.207 0.628 0.010 0.026				,						
Name 2 Sample 2.346 0.184 0.214 0.667 1.802 Ambient 2.429 0.000 0.007 0.042 1.885 et Concentration 0.037 0.184 0.207 0.628 0.010 0.026										
Sample	Phace 2		Remarks:							
Ambient 2.429 0.000 0.007 0.042 1.885 et Concentration 0.037 0.184 0.207 0.628 0.010 0.026 et Concentration 0.0321 4.538 0.974 0.889 1.893	(00000000000000000000000000000000000000	Sample		2.346	0.184	0.214	0.667	1 802		
Remarks:	1									
Remarks: Sample	_								0.026	
Name										
Name										
Name			Domarko					•		
Sample 2.610 4.538 0.974 0.889 1.893	Phase 3		remarks.							
Ambient 2.452 0.000 0.006 0.042 1.884 et Concentration 0.321 4.538 0.968 0.850 0.134 0.168 Remarks: Remarks: Besults HC-FID CO NOX CO2 CH4 NMHC Vol MPG (gpm) (+00T/01001000000000000000000000000000000	Sample		2.610	4 538	0.974	0.889	1 893		
Remarks: Remarks										
Remarks: Sample									0.168	
Sample										
Sample										
Sample Ambient et Concentration			Remarks:							
Ambient et Concentration Remarks: Semarks CO2	Phase 4									
Remarks: Semilts HC-FID CO NOx CO2 CH4 NMHC Vol MPG										
Remarks: Remarks:				,						
HC-FID CO NOx CO2 CH4 NMHC Vol MPG	Net Conce	entration								
HC-FID CO NOx CO2 CH4 NMHC Vol MPG										
HC-FID CO NOx CO2 CH4 NMHC Vol MPG										
(gpm) (gpm) (gpm) (gpm) (gpm) (gpm) (gpm) (gpm) (gpm) (mpg)			Remarks:							
(gpm) (gpm) (gpm) (gpm) (gpm) (gpm) (gpm) (gpm) (gpm) (mpg)										
Phase 1 0.208 1.002 0.080 396.0 0.023 0.186 22.327 Phase 2 0.001 0.007 0.012 396.1 0.000 0.001 22.445 Phase 3 0.004 0.114 0.036 337.1 0.002 0.002 26.359 Weighted 0.04474 0.24325 0.03304 379.856 0.00536 0.03944 Weighted 0.04474 0.24325 0.03304 379.856 0.00536 0.03944 Phase 1 22.30 Phase 1 22.30 Phase 2 22.42 Phase 3 26.33 EPA Set Co A: 8.68 EPA Set Co B: 0.4497 EPA Set Co B: 0.4497	Results									
Phase 2 0.001 0.007 0.012 396.1 0.000 0.001 22.445 Phase 3 0.004 0.114 0.036 337.1 0.002 0.002 26.359 Weighted 0.04474 0.24325 0.03304 379.856 0.00536 0.03944 Weighted 0.04474 0.24325 0.03304 379.856 0.00536 0.03944 Weighted 0.04474 0.24325 0.03304 379.856 0.00536 0.03944 Phase 1 22.30 Phase 1 22.30 Phase 2 22.42 Phase 3 26.33 EPA Set Co A: 8.68 EPA Set Co B: 0.4497 EPA Set Co B: 0.04747			Dhac- 4							
Phase 3 0.004 0.114 0.036 337.1 0.002 0.002 26.359										
Weighted 0.04474 0.24325 0.03304 379.856 0.00536 0.03944 Jel Economy Gasoline MPG Dyno Settings Dyno #: D329 - FWD Phase 1 22.30 Inertia: 4000 Phase 2 22.42 EPA Set Co A: 8.68 Phase 3 26.33 EPA Set Co B: 0.4497										
Jel Economy Gasoline MPG Dyno Settings Dyno #: D329 - FWD Phase 1 22.30 Inertia: 4000 Phase 2 22.42 EPA Set Co A: 8.68 Phase 3 26.33 EPA Set Co B: 0.4497			r Hase S	V.VU4	0.114	0.030	337.1	0.002	0.002	20.359
Jel Economy Gasoline MPG Dyno Settings Dyno #: D329 - FWD Phase 1 22.30 Inertia: 4000 Phase 2 22.42 EPA Set Co A: 8.68 Phase 3 26.33 EPA Set Co B: 0.4497										
Phase 1 22.30 Inertia: 4000 Phase 2 22.42 EPA Set Co A: 8.68 Phase 3 26.33 EPA Set Co B: 0.4497 EPA Set Co C: 0.01747		NAMES OF TAXABLE PARTY OF TAXABLE PARTY.	and the second s		0.24325	0.03304	379.856			
Phase 2 22.42 EPA Set Co A: 8.68 Phase 3 26.33 EPA Set Co B: 0.4497	ruel Econ	omy	400	processor and the second secon				Dyno Settings	•	1
Phase 3 26.33 EPA Set Co B: 0.4497										
EDA Cot Co C: 0.00747										
_ EFA 56(CO C: 0.01/1/			r11858 3	20.33						
								۵	EFM SELCO U:	0.01717
Weighted 23.34 Emiss-Bench: Mexa 7200sle			Weighted	23.34	•	•	* · · · · · · · · · · · · · · · · · · ·	•	Emiss-Bench:	Mexa 7200sle
	v101007 - d3:		AND DESCRIPTION OF THE PARTY OF	21123359	.	Page 1 of 2			****************	Contraction of the Contraction o

				Laboratory To				cvs
		Test Number: 2		_aboratory Test I	desuits	Vohicle ID:	N001RXX-004	30
Results		HC-FID	CO CO	NOx	CO2	CH4	NMHC	Meth Response
Nesults		(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.143
THITEO O. A. F.	Phase 1	0.747	3.590	0.286	1419.5	0.081	0.666	1.140
\$ 0 E	Phase 2	0.003	0.028	0.048	1521.4	0.001	0.002	
[B [] [B]	Phase 3	0.014	0.410	0.131	1208.5	0.007	0.002	
(E)	1 11000	0.017	0.470	0.101	12.00.0	0.001	0.000	
REAL PROTECTION								
Test Conditions			Phase 1	Phase 2	Phase 3	Phase 4		
	Ba	arometer (inHg)	28.86	28.86	28.87	provident and market and and a		
		ell Temp (degF)	74.49	75.17	74.47			
		ew Point (degF)	49.12	49.05	49.17			
Sp		lity (grains/lbm)	53.72	53.58	53.80			
		Ox Corr Factor	0.9091	0.9085	0.9094			
	CO2	Dilution Factor	12.788	20.074	15.058			
	CFV VI	mix (scf @68F)	2730.44	4678.11	2743.12			
	CVS Flow R	tate Avg (scfm)	323.13	322.41	324.95			
		Fan Placement: O		-ront				
		se Time (secs)	507.00	870.60	506.51			
		istance (miles)	3.585	3.841	3.585	•		
	Bag Analys	sis Time (secs)	880.1	1110.2	120.6			

	have valida	ted the da	ta in	accordance	with the	e requirements	of TP	730
8	STORAGE ACTIONS	100 U 11 U W.	LLA 111	according to	AALTH THE	o roughonionic	UIL	8 . 3 . 3

v101007 - d329 EPAVDAEm101021123359

Page 2 of 2

Print Time 21-Oct-2010 14:07

NVFEL Laboratory Test Data

Final Laboratory Test Results Test Number: 2010-0367-003

Vehicle ID: N001RXX-0043C

Test Information

Test Date: 10/21/2010

MFR Name AUDI MFR Codes: 640



Key Start: 14:31:50

Fuel Container ID: F00023

Config #: 00

ADX

Pretest Remarks:

Fuel Type: 61 Tier 2 Cert Test Fuel

Transmission: AUTO

Test Procedure: 03 HWFET (hwfetprep_hwfet) Calculation Method: Gasoline

Shift Schedule: A09980011

Beginning Odometer: 007943.0 MI

Drive Schedule: hwfet_hwfet

Bag Data	<u>HC-FID</u>	CO	<u>NOx</u>	CO2	CH4	NonMeth HC	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	3.407	19.978	0.297	1.211	1.979	4	
Ambient	2.478	0.000	0.002	0.042	1.886		
Net Concentration	1.153	19.978	0.295	1.173	0.264	0.851	

Remarks:

Phase 2

Sample **Ambient**

Net Concentration

Remarks:

Phase 3

Sample **Ambient**

Net Concentration

Remarks:

Phase 4

Sample

Ambient

Net Concentration

Remarks:

EPAVDAEm101021135859

	Results	HC-FID	CO	NOV	000	CILIA		
A STANSON	White Newson Commonweal Laboration	(gpm)	(anm)	NOx	<u> </u>	CH4	NMHC	Vol MPG
Sactoriza	Phase 1	0.008	(gpm) 0.264	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
National Property lies	1 11000 1	0.000	0.204	0.006	243.8	0.002	0.006	36.400

Fuel Economy

v101007 - d329

Gasoline MPG Phase 1

36.36

Dyno Settings

Dyno #: D329 - FWD

Inertia: 4000

EPA Set Co A: 8.68 EPA Set Co B: 0.4497

EPA Set Co C: 0.01717

Emiss-Bench: Mexa 7200sle

Print Time 21-Oct-2010 14:55

Page 1 of 2

50000000000000000000000000000000000000								
			NVFEL	Laboratory To	est Data			cvs
			Final L	aboratory Test I	Results			
		Test Number:	2010-0367-003			Vehicle ID:	N001RXX-0043C	3 .
<u>sults</u>		HC-FID	<u>co</u>	NOx	<u>CO2</u>	CH4	NMHC	Meth Response
JHITED STATES		(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.143
Selved Selved	Phase 1	0.077	2.703	0.060	2494.6	0.020	0.057	
V// 3								

Test Conditions Phase 1 Phase 2 Phase 3 Phase 4 Barometer (inHg) 28.87 Avg Cell Temp (degF) 75.18 Dew Point (degF) 49.09 Specific Humidity (grains/lbm) 53.63 NOx Corr Factor 0.9087 CO2 Dilution Factor 11.041 CFV Vmix (scf @68F) 4104.25

321.90

Fan Placement: One Fan - Up - Front
Phase Time (secs) 765.00
Distance (miles) 10.231
Bag Analysis Time (secs) 104.8

CVS Flow Rate Avg (scfm)

I have validated the data in accordance with the requirements of TP 730

Validated By:

Date: 10/21/10

v101007 - d329 ___EPAVDAEm101021135859

PROTES

Page 2 of 2

Print Time 21-Oct-2010 14:55

10/21/2010 2:55 PM

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VW FOIA, EPA



To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Berenz, Sebastian"

Sent: Mon 10/25/2010 6:07:24 PM

Subject: RE: N001-0043c data with incorrect weight

Hello Lynn,

Thank you very much.

Sebastian

----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Monday, October 25, 2010 1:43 PM

To: Berenz, Sebastian

Subject: N001-0043c data with incorrect weight

Hi, Sebastian.

Here is the data for the above vehicle. As I mentioned, this data will be completely replaced by the next test which will be run with the correct weight.

Please let me know if you have any questions.

Regards,

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

(See attached file: N001RXX-0043C.pdf)

Sent: Subject: sebastian	Mon 10/25/2010 7:09:52 PM Test results N001RXX-0043C .berenz@vw.com
Hello Lynn	,
I looked at	the "unofficially" test results of car N001RXX-0043C, which were quite good.
	ssed the standards even under harder conditions like the heavier weight and stronger s from the all wheel drive version.
That show	s from Volkswagen's point of view that the system is working fine.
	agen would definitely accept these results. If you like to give the car back to the customer and ner test on this car, it would be fine with us.
We are loc	oking forward to get results from the other cars that we inspected in your lab.
Let me kno	ow if this would work out for you.
Thank you	very much.
Best regard	ds
Sebastian	
Sebastian	Berenz
Manager I	n-Use Emission Compliance
Enviromen	ital Engineering Office
3800 Ham	n Group of America, Inc. lin Road lls, MI 48326

To:

From:

Lynn Sohacki/AA/USEPA/US@EPA[]

"Berenz, Sebastian"

United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Mon 10/25/2010 8:34:23 PM **Subject:** Re: Test results N001RXX-0043C

sebastian.berenz@vw.com

Hi, Sebastian.

We will test the vehicle with the correct weight but I appreciate your e-mail.

Thanks

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 10/25/2010 03:10 PM Subject: Test results N001RXX-0043C

Hello Lynn,

I looked at the "unofficially" test results of car N001RXX-0043C, which were quite good.

The car passed the standards even under harder conditions like the heavier weight and stronger coefficients from the all wheel drive version.

That shows from Volkswagen's point of view that the system is working fine.

So Volkswagen would definitely accept these results. If you like to give the car back to the customer and save another test on this car, it would be fine with us.

We are looking forward to get results from the other cars that we inspected in your lab.

Let me know if this would work out for you.

Thank you very much.

Best regards

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: "Thomas, Richard" [Richard.Thomas@vw.com]; N=Vincent

Mazaitis/OU=AA/O=USEPA/C=US@EPA[]

Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Thur 10/28/2010 1:24:55 PM **Subject:** Re: Bentley Mulsanne Release

I signed the vehicle release. Let us know when you plan on picking it up and I'll warn Ben.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" < Robert. Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Cc: "Thomas, Richard" < Richard. Thomas@vw.com>

Date: 10/28/2010 08:24 AM Subject: Bentley Mulsanne Release

Hello Jim,

Bentley has accepted the test results for the Mulsanne (vehicle ID: 15113) and it can be released for pick up.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 10/28/2010 5:25:29 PM

Subject: Test data for in-use vehicle N001-0018c

N001RXX-0018C.pdf

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

NVFEL Laboratory Test Data

Final Laboratory Test Results

Test Number: 2011-0002-003

Test Date: 10/27/2010 Key Start: 14:24:34

Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Calculation Method: Gasoline

Pretest Remarks:

Vehicle ID: N001RXX-0018C

MFR Name AUDI

MFR Codes: 640 ADX

Config #: 00 Transmission: AUTO

Shift Schedule: A09980011 Beginning Odometer: 022952.0 MI

Drive Schedule: hwfet_hwfet

<u>CH4</u> NonMeth HC

Bag Data HC-FID CO <u>NOx</u> CO₂ Phase 1 (%) (ppmC) (ppm) (ppm) (ppm) (ppmC) Sample 4.019 51.332 0.207 1.232 2.209 **Ambient** 2.551 0.000 0.010 0.043 1.904 **Net Concentration** 1.704 51.332 0.198 1.193 0.481 1.154

Remarks:

Phase 2

Sample Ambient **Net Concentration**

Test Information

TED STATES

Remarks:

Phase 3

Sample Ambient Net Concentration

Remarks:

Phase 4

Sample **Ambient** Net Concentration

Remarks:

EPAVDAEm101027140147

Results **HC-FID** CO <u>NOx</u> CO₂ CH4 **NMHC** Vol MPG (gpm) (gpm) (gpm) (gpm) (gpm) (gpm) (mpg) Phase 1 0.011 0.674 0.004 246.0 0.004 0.008 35.981

Fuel Economy Gasoline MPG Dyno Settings Dyno #: D329 - AWD Phase 1 35.95 Inertia: 4000 EPA Set Co A: -2.42 EPA Set Co B: 0.1225 EPA Set Co C: 0.01689

Page 1 of 2

Emiss-Bench: Mexa 7200sle

Print Time 27-Oct-2010 14:57

2017-FFP_001785

v101007 - d329

		Laboratory T				cvs
Test Number: 2		_aboratory Test	Results	Vohiala ID:	NOO4DVV 0046	20
Results HC-FID (grams) Phase 1 0.113	<u>CO</u> (grams) 6.896	<u>NOx</u> (grams) 0.040	<u>CO2</u> (grams) 2518.4	CH4 (grams) 0.037	N001RXX-0018 NMHC (grams) 0.077	Meth Respons 1.143
Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF) Specific Humidity (grains/lbm) NOx Corr Factor CO2 Dilution Factor CFV Vmix (scf @68F)	Phase 1 28.67 75.24 49.00 53.84 0.9095 10.825 4074.58	Phase 2	Phase 3	Phase 4		
CVS Flow Rate Avg (scfm)	319.53					
Fan Placement: O Phase Time (secs) Distance (miles) Bag Analysis Time (secs)	ne Fan - Up - F 765.10 10.237 104.8	ront				
I have validated the data in ac	cordance with t	he requirements	of TP 730			
Validated By:	A		Date:	10	/27/10	

10/27/2010 2:57 PM

v101007 - d329 EPAVDAEm101027140147

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Page 2 of 2

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Print Time 27-Oct-2010 14:57

NVFEL Laboratory Test Data
Final Laboratory Test Results
Test Number: 2011-0002-002 Vehic

Test Information Test Date: 10/27/2010

Key Start / Hot Soak: 13:10:40 / 09:43 Fuel Container ID: F00023

Fuel Type: 61 Tion

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp

Calculation Method: Gasoline

Vehicle ID: N001RXX-0018C

MFR Name AUDI

MFR Codes: 640 ADX

Config #: 00

Transmission: AUTO
Shift Schedule: A09980005
Beginning Odometer: 022941.0 MI

THE PROTECT	Pretest Remarks:	Casoline	•	Drive Schedule: ftp3bag Soak Period: 20.5 hours				
Bag Data	HC-FID	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	NonMeth HC		
Phase 1	(ppmC)	(ppm)	(ppm)	<u>(%)</u>	(ppm)	(ppmC)		
Sample	22.296	73.430	1.671	1.115	3.497	(Ppe)		
Ambient	2.474	0.000	0.013	0.043	1.910			
Net Concentration	20.030	73.430	1.660	1.075	1.747	18.033		
Remark	ks:							
Phase 2								
Sample	2.726	9.306	0.045	0.714	1.879			
Ambient	2.403	0.000	0.014	0.043	1.907			
let Concentration	0.451	9.306	0.031	0.673	0.074	0.366		
Remark Phase 3	s:							
Sample	4.263	20.089	0.598	0.937	2.131			
Ambient	2.412	0.000	0.013	0.044	1.905			
let Concentration	2.021	20.089	0.586	0.896	0.359	1.610		
Remark	e.							
hase 4	,							
Sample								
Ambient								
let Concentration								
Remarks	s:				·			
esults	HC-FID	CO	NOv	CO2	CHA	NMUC	ValMDC	

Results		HC-FID	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	Vol MPG
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	Phase 1	0.248	1.839	0.062	423.2	0.025	0.224	20.827
ļ	Phase 2	0.009	0.370	0.002	420.6	0.002	0.007	21.109
	Phase 3	0.025	0.503	0.022	352.4	0.005	0.020	25.165
	Weighted	0.06290	0.71059	0.01983	402.413	0.00748	0.05551	
Fuel Economy	<u> </u>	<u> Basoline MPG</u>				Dyno Settings	Dyno #:	D329 - AWD
	Phase 1	20.81					Inertia:	4000
	Phase 2	21.09					EPA Set Co A:	-2.42
	Phase 3	25.14					EPA Set Co B:	0.1225
							EPA Set Co C:	0.01600
1						±	EFA SELCO C.	0.01069
				•		<u>*</u>	EFA Sel Co C.	0.01009
v101007 - d329	Weighted	22.02	•		•		Emiss-Bench:	

06/20/2017

			NVFEL	Laboratory T	est Data			cvs		
		Test Number: 2		_aboratory Test	Results	V 1 15	N			
<u>Results</u>		HC-FID	<u>CO</u>	<u>NOx</u>	CO2		nicle ID: N001RXX-0018C			
THITED STATES TO NOT THE PROTECT OF	Phase 1 Phase 2 Phase 3	(grams) 0.889 0.034 0.090	(grams) 6.580 1.428 1.804	(grams) 0.222 0.007 0.079	<u>CO2</u> (grams) 1514.4 1621.8 1264.4	<u>CH4</u> (grams) 0.090 0.007 0.018	NMHC (grams) 0.800 0.028 0.072	Meth Respon 1.143		
est Conditions			Phase 1	Phase 2	Phase 3	Phase 4				
		rometer (inHg)	28.70	28.69	28.68					
	Avg Ce	ll Temp (degF)	74.72	74.32	74.80					
	De	w Point (degF)	48.99	49.03	48.97					
Sp		ity (grains/lbm)	53.77	53.86	53.76					
NOx Corr Factor			0.9093	0.9096	0.9092					
		Dilution Factor	11.915	18.745	14.263					
	CFV Vn	nix (scf @68F)	2717.94	4652.68	2723.03					
	CVS Flow Ra	ate Avg (scfm)	321.71	320.73	322.70					
	Fa	an Placement: Oi	ne Fan - Up - F	ront						
		e Time (secs)	506.90	870.40	506.30					
	Di	stance (miles)	3.578	3.856	3.587					
		is Time (secs)	879.9	1104.8	120.0					
							•			
			•							

I have validated the	data in accordance	with the requirements of TP 7	730
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Validated By: _____ Date: 10 27/

v101007 - d329 EPAVDAEm101027125602

Page 2 of 2

Print Time 27-Oct-2010 14:08

2017-FFP_001788

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: []
Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Fri 10/29/2010 2:11:17 PM

Subject: Test data for in-use vehicle N001-0043c

N001RXX-0043C.pdf

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

	***************************************			aboratory				cvs
		Tool Minshon		boratory Test	t Results	Vahiala ID:	NIODADVV ODAS	^
Test Information			2010-0367-005 10/28/2010			MFR Name	N001RXX-0043	
rest mormation	Key S		13:01:06 / 09:31			MFR Codes:		ADX
OHITED STATES		el Container ID:				Config #:		71071
	i u		61 Tier 2 Cert Tes	et Firel		Transmission:		
	٦		21 Fed Fuel 2-day		N I OAD\/ffin	Shift Schedule:		
(3)		ulation Method:		, Extraor (O)		Beginning Odometer:		
PROTECTION		etest Remarks:	Outomio			Drive Schedule:		
		otost itematiks.				Soak Period:		
manani miranani ka 1111 ya 1101 - Paleni a		Maria (Maria Maria Cara de Car				www.c. with	1011110010	
Bag Data		HC-FID	CO	NOx	<u>CO2</u>	<u>CH4</u>	NonMeth HC	
<u>'hase 1</u>		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	!	21.508	46.088	2.327	1.007	3.781		
Ambient		2.509	0.000	0.011	0.042	1.890		
Vet Concentration		19.189	46.088	2.317	0.969	2.034	16.864	
	Remarks:							
<u>Phase 2</u>							•	
Sample		2.416	1.333	0.195	0.645			
Amblent		2,463	0.000	0.012	0.042			
Vet Concentration		0.071	1.333	0.184	0.605	0.012	0.057	
	Remarks:							
hase 3								
Sample		2.742	2.410	2.082	0.835	1.925		
Ambient		2.589	0.000	0.012	0.042	1.887		
Vet Concentration		0.314	2.410	2.071	0.796	0.156	0.136	
hase 4	Remarks:							
Sample								
Ambient								
let Concentration								
	Remarks:							
tesults		HC-FID	CO	NOx	CO2	CH4	NMHC	Vol MPG
www.		(gpm)	(gpm)	(gpm)	(gpm)		(gpm)	(mpg)
	Phase 1	0.240	1.163	0.087	384.0		0.211	22,997
	Phase 2	0.001	0.054	0.011	383.1	0.000	0.001	23.202
	Phase 3	0.004	0.061	0.078	316.4		0.002	28.090
		¥	A	<i></i>				
	Weighted	0.05159	0.28592	0.04523	364.95		0.04480	Dago Eive
uel Economy		Gasoline MPG				Dyno Settings		D329 - FWD
	Phase 1	22.97					Inertia:	
	Phase 2	23.18 28.06					EPA Set Co A:	
		28 HK					EPA Set Co B:	0.2701
	Phase 3	20.00					EDA CALOS O	0.04644
	rnase 3	20.00				Ł	EPA Set Co C:	0.01611
	Weighted	24.29					EPA Set Co C: Emiss-Bench:	

06/20/2017

				Laboratory To				cvs
		Test Number: 2		aboratory Test	Results	17-1-1-15-	11004501/004	
Results		HC-FID	CO	<u>NOx</u>	CO2		N001RXX-004	
WHITED STATES TO BOOK	Phase 1 Phase 2 Phase 3	(grams) 0.861 0.005 0.014	(grams) 4.175 0.207 0.219	(grams) 0.312 0.042 0.280	(grams) 1378.9 1474.0 1136.6	CH4 (grams) 0.106 0.001 0.008	NMHC (grams) 0.757 0.004 0.006	Meth Respons 1.143
<u>Test Conditions</u> Sp	Avg Ce De pecific Humid N CO2	rometer (inHg) Il Temp (degF) w Point (degF) ity (grains/lbm) Ox Corr Factor Dilution Factor nix (scf @68F)	Phase 1 29.02 74.70 48.93 53.04 0.9065 13.216 2747.50	Phase 2 29.02 74.86 48.90 52.98 0.9062 20.775 4701.77	Phase 3 29.03 74.54 48.95 53.07 0.9065 16.044 2756.93	Phase 4		
	CVS Flow R	ate Avg (scfm)	325.15	324.26	326.71			
	F	an Placement: O	ne Fan - Up - F	ront				
	Phas	se Time (secs)	507.00	870.00	506.30			•
		istance (miles) ils Time (secs)	3.591 879.5	3.847 1092.8	3.592 120.6			

I have validated the data I	thu annonna uitt	the requirements	AF TD 730

v101007 - d329 ___EPAVDAEm101028124458

Page 2 of 2

Print Time 28-Oct-2010 13:54

NVFEL Laboratory Test Data CVS Final Laboratory Test Results Test Number: 2010-0367-006 Vehicle ID: N001RXX-0043C **Test Information** Test Date: 10/28/2010 MFR Name AUDI Key Start: 14:14:27 WHITEO STATE MFR Codes: 640 ADX Fuel Container ID: F00023 Config #: 00 Fuel Type: 61 Tier 2 Cert Test Fuel Transmission: AUTO Test Procedure: 03 HWFET (hwfetprep_hwfet) Shift Schedule: A09980011 Calculation Method: Gasoline Beginning Odometer: 008011.0 MI Pretest Remarks: Drive Schedule: hwfet hwfet **Bag Data HC-FID** CO **NOx** <u>CO2</u> CH4 NonMeth HC Phase 1 (ppmC) (ppm) (ppm) (%) (ppm) (ppmC) Sample 3.750 15.119 0.269 1.116 2.043 **Ambient** 2.696 0.000 0.007 0.042 1.883 **Net Concentration** 1.278 15.119 0.263 1.077 0.317 0.916 Remarks: Phase 2 Sample Ambient **Net Concentration** Remarks: Phase 3 Sample **Ambient** Net Concentration Remarks: Phase 4 Sample **Ambient Net Concentration** Remarks: Results HC-FID <u>CO</u> **NOx** CO2 CH4 **NMHC** Vol MPG (gpm) (gpm) (gpm) (gpm) (gpm) (gpm) (mpg) Phase 1 800.0 0.201 0.005 225.4 0.002 0.006 39.386 Fuel Economy Gasoline MPG **Dyno Settings** Dyno #: D329 - FWD Phase 1 39.35 Inertia: 3875 EPA Set Co A: 3.62 EPA Set Co B: 0.2701 EPA Set Co C: 0.01611 Emiss-Bench: Mexa 7200sle v101007 - d329 EPAVDAEm101028134807 Page 1 of 2 Print Time 28-Oct-2010 14:39

06/20/2017

			Laboratory To		· · · · · · · · · · · · · · · · · · ·	***************************************	cvs
	Tank Maraka a		aboratory Test I	Results		****	
tesults	Test Number: 2 HC-FID	010-0367-006 <u>CO</u>	NOx	CO2		N001RXX-0043C	
Phase 1	(grams) 0.086	(grams) 2.058	(grams) 0.053	(grams) 2304.6	<u>CH4</u> (grams) 0.025	NMHC (grams) 0.062	Meth Respons 1.143
est Conditions Ba	arometer (inHg) all Temp (degF)	Phase 1 29.03	Phase 2	Phase 3	Phase 4	,	
De Specific Humid N	ew Point (degF) lity (grains/lbm) lOx Corr Factor Dilution Factor	74.78 48.91 52.98 0.9062 11.991					
CFV V	mix (scf @68F)	4128.61					
CVS Flow R	tate Avg (scfm)	323.77					
	an Placement: O		ront				
	se Time (secs) listance (miles)	765.10 10.225					
	sis Time (secs)	104.8					
l have valida	ated the data in ac	cordance with	the requirements	<u>ο</u> ί ΤΡ 730	10/28/h		

10/28/2010 2:39 PM

v101007 - d329 EPAVDAEm101028134807

20080609183200

VTAURdxxx.xls

Print Time 28-Oct-2010 14:39

Page 2 of 2

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: Sohacki.Lynn@epamail.epa.gov[]

From: CN=Vincent Mazaitis/OU=AA/O=USEPA/C=US

Sent: Tue 11/2/2010 11:29:08 AM

Subject: 0055C

Good morning Sebastian,

The Subject vehicle will Roadload and prep tomorrow (11/3/10) and test Thursday 11/4/10. I'll contact you as soon as I can get a probable start time.

Thanks Sebastian,

Vince Mazaitis

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: []
Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 11/4/2010 5:13:28 PM

Subject: In-use vehicles scheduled for next week

In-Use Parameters Form.xls

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0162 (2008 VW/Passat) - VIN# **Ex. 6** , 11/08/10 (Monday) 1200 Incoming.

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.181104(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

1

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

VW FOIA, EPA

To: Lynn Sohacki/AA/USEPA/US@EPA[] "Berenz, Sebastian" From: Thur 11/4/2010 6:20:20 PM Sent: Subject: RE: In-use vehicles scheduled for next week In-Use Parameters Form N148RXX-0162 WWWUK73C38E164190.pdf Fuel Drain Instuctions.pdf Hello Lynn, Attached you will find the parameters for the 2.0 Passat. Let me know when we should be in Ann Arbor for the inspection on Monday. If you have any results for the Audi A6 3.1l, it would be great if you can forward them to me. Thank you very much. Best regards Sebastian Berenz Manager In-Use Emission Compliance **Environmental Engineering Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207 E-Mail: sebastian.berenz@vw.com http://www.volkswagen.com P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

Original Message
From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]
Sent: Thursday, November 04, 2010 1:13 PM
To: Berenz, Sebastian
Subject: In-use vehicles scheduled for next week
Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0162 (2008 VW/Passat) - VIN# **Ex. 6** 11/08/10

(Monday) 1200 Incoming.

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



National Vehicle and Fuel Emissions Laboratory 2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number:	N148RXX-0162		
Equivalent Test Weight:	3	625.0 Pounds	
Nominal Fuel Tank Capacity:		18.5 Gallons 40	% Fill 7.4 Gallons
Drive Axle:	front	Front, Rear or	All wheel drive
Tire Pressure:		33 PSI	
Mfr. Shift Schedule (if required)	FTA FTP	HWA	VY USA US06
Vehicle Target Road-Load Coeffici	ents Veh	icle Set Road-Load	l Coefficients
A 33.72 Lb-for	rce	Α	Lb-force
B 0.134 Lb-for	rce*mph	В	Lb-force*mph
c 0.0179 Lb-for	rce*mph ²	С	Lb-force*mph ²
Does this vehicle qualify for relaxed in-use	standards as set forth	in 40 CFR 86.1811-04	4(p)? <u>N</u> (Y/N)
Vehicle Starting Instructions, inclu	ding Traction Con	trol disabling:	
see attached document			
To avoid unnecessary delays, please provide spec	ific instructions and picture	es (if necessary) for the foll	owing items:
Canister Loading Process: see a	ittached documen	t	
Fuel Draining Process:	ittached documen	t	
ABS Disabling Process:	ittached documen	t	
Fuel Switch Process (Flex Fuel only):	n.a.		
Comments:			
	For internal EPA U	se Only:	
This information was obtained from: * Letter, e-mail, fax or other document del (attach any addition) * Verbal instruction from the manufacturer * Other (specify)	livered from the manufacturen		
Manufacturer Representative: Sebas	tian Berenz VWGoA		Date: 11/4/2010
EG&G Representative:			Date:
EPA Representative:			Date:

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 11/4/2010 6:34:45 PM

Subject: RE: In-use vehicles scheduled for next week

Thank you, Sebastian.

John White of URS will probably be calling you about the maintenance time.

I haven't gotten the official data for the Audi A-6 yet. I'll forward it to you as soon as possible.

Regards.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" < Sebastian. Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 11/04/2010 02:21 PM

Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the parameters for the 2.0 Passat.

Let me know when we should be in Ann Arbor for the inspection on Monday.

If you have any results for the Audi A6 3.1I, it would be great if you can forward them to me.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, November 04, 2010 1:13 PM

To: Berenz, Sebastian

Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0162 (2008 VW/Passat) - VIN# (Monday) 1200 Incoming.

Ex. 6 11/08/10

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity 40% tank capacity tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-

04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Fri 11/5/2010 2:14:09 PM

Subject: Test data for in-use vehicle N001-0055c

N001RXX-0055C.pdf

Hi, Bernard,

The data for the above vehicle is attached. Please give me a call if you have any questions.

Have a nice weekend!

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

NVFEL Laboratory Test Data Final Laboratory Test Results Test Number: 2011-0010-003 Vehicle ID: N001RXX-0055C Test Information Test Date: 11/4/2010 MFR Name AUDI Key Start: 10:04:32 MFR Codes: 640 ADX Fuel Container ID: F00023 Config #: 00 Fuel Type: 61 Tier 2 Cert Test Fuel Transmission: AUTO Test Procedure: 03 HWFET (hwfetprep hwfet) Shift Schedule: A09980011 Calculation Method: Gasoline Beginning Odometer: 015236.0 MI Pretest Remarks: Drive Schedule: hwfet_hwfet **Bag Data HC-FID** CO **NOx** CO₂ CH4 NonMeth HC Phase 1 (ppmC) (ppm) (%) (ppm) (ppm) (ppmC) Sample 4.233 39.317 0.458 1.309 2.143 **Ambient** 3.098 0.000 0.028 0.045 2.052 **Net Concentration** 1.439 39.317 0.432 1.268 0.292 1.106 Remarks: Phase 2 Sample **Ambient** Net Concentration Remarks: Phase 3 Sample Ambient Net Concentration Remarks: Phase 4 Sample **Ambient Net Concentration** Remarks: Results HC-FID CO <u>NOx</u> <u>CO2</u> CH4 **NMHC** Vol MPG (gpm) (gpm) (gpm) (gpm) (gpm) (gpm) (mpg) Phase 1 0.009 0.519 0.009 263.0 0.002 0.007 33.694

Fuel Economy	Gas	soline MPG			Dyno Settings	Dyno #:	D329 - AWD
	Phase 1	33.66				Inertia:	The second secon
						EPA Set Co A:	5.03
						EPA Set Co B:	0.2051
					4	EPA Set Co C:	0.01729
			•	•	•		
			 			Emiss-Bench:	Mexa 7200sle
v101007 - d329E	PAVDAEm10110409	94015	 Page 1 of 2	in mysery seas, argintse	after personal services	Print Tim	e 04-Nov-2010 10:50

				Laboratory To aboratory Test I				cvs
	262916	Test Number: 2	011-0010-003			Vehicle ID:	N001RXX-0055	C
Results JUNIED STATES TO NO ST	Phase 1	HC-FID (grams) 0.096	<u>CO</u> (grams) 5.313	<u>NOx</u> (grams) 0.087	<u>CO2</u> (grams) 2693.3	<u>CH4</u> (grams) 0.023	NMHC (grams) 0.074	Meth Response 1.143
Test Conditions Spe	Avg Ce De ecific Humid N CO2	rometer (inHg) Il Temp (degF) w Point (degF) ity (grains/lbm) Ox Corr Factor Dilution Factor nix (scf @68F)	Phase 1 28.77 74.93 49.11 53.87 0.9097 10.201 4098.95	Phase 2	Phase 3	Phase 4		
٠.,	CVS Flow R	ate Avg (scfm)	321.44					
	Pha: D	an Placement: O se Time (secs) stance (miles) is Time (secs)	ne Fan - Up - F 765.10 10.239 105.9	ront				
							·	İ

11/4/2010 10:50 AM

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Page 2 of 2

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				Laboratory				cvs
		Toot Number		aboratory Tes	t Results	Malala ID.	NOOADVA OOF	
Test Information			2011-0010-002				N001RXX-0055	iC
	Kov	Test Date:	08:45:56 / 10:08			MFR Name MFR Codes:		ADX
UNITED STATES	•	uel Container ID:						ADX .
(2) 3	Γŧ			ant Fuel		Config #:		
OBIANS			61 Tier 2 Cert Te 21 Fed Fuel 2-da		N I OADV#n	Transmission: Shift Schedule:		
18		culation Method:		ay Exhaust (CA		Beginning Odometer:		
TAL PROTECT		retest Remarks:	Cusonic			Drive Schedule:		
		rotost rtomants.				Soak Period:		
						Ocak i ciica.	10.0 110013	
Bag Data		HC-FID	<u>co</u>	NOx	CO2	<u>CH4</u>	NonMeth HC	
Phase 1		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample		25.212	57.960	2.096	1.160	3.846		
Ambient		3.284	0.000	0.030	0.045			
Net Concentration		22.215	57.960	2.069	1.119	1.980	19.951	
	Remarks:							
Phase 2								
Sample		3.572	9.497	0.034	0.737	1.990		
Ambient		3.411	0.000	0.028	0.044	2.040		
Net Concentration		0.349	9.497	0.007	0.696	0.062	0.278	
	*							
	Remarks:							
Phase 3	r comanco.							
Sample		6.621	35.809	0.415	0.975	2,407		
Ambient		3.261	0.000	0.027	0.045	2.037		
Net Concentration		3.598	35.809	0.390	0.933	0.518	3.006	
	Remarks:					•		
Phase 4								
Sample								
Ambient	,							
Net Concentration								
	Remarks:							
	rtomanto.							
Results		HC-FID	<u>CO</u>	NOx	<u>CO2</u>	<u>CH4</u>	NMHC	Vol MPG
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	Phase 1	0.275	1.451	0.077	440.2	0.028	0.247	20.053
	Phase 2	0.007	0.379	0.000	436.0	0.001	0.005	20.363
	Phase 3	0.045	0.899	0.015	368.1	0.007	0.037	24.055
,	Weighted	0.07294	0.74397	0.02027	418.197	0.00867	0.06437	
uel Economy	Charles and Control Control Control	Gasoline MPG	V., 1001	V.VV4.1	710.107	Dyno Settings	No. of the last of	D329 - AWD
	Phase 1	20.03					Inertia:	
	Phase 2	20.34					EPA Set Co A:	
	Phase 3	24.03					EPA Set Co B:	
						4	EPA Set Co C:	
	. A. C	04.45	•	•		•		
	Weighted	21.18					Emiss-Bench:	Maya 7200ala
	AVDAEm1011			Page 1 of 2				e 04-Nov-2010 09:43

06/20/2017

				Laboratory T				cvs
		Test Number: 2		aboratory Test	Results	Valetele ID.	NOO4DVV OOF	
Results		HC-FID	<u>CO</u>	NOx	CO2		N001RXX-005	and the second s
		(grams)	(grams)	(grams)	<u>CO2</u> (grams)	CH4	NMHC	Meth Respons
JUSTED STATES	Phase 1	0.988	5.204	0.277	1578.7	(grams) 0.102	(grams) 0.887	1.143
	Phase 2	0.027	1.461	0.002	1682.0	0.102	0.021	
	Phase 3	0.161	3.232	0.053	1323.2	0.003	0.134	
The state of the s	, ,,,,,,,	0.101	0.202	0.000	1020.2	0.027	0.134	
AL PROTECT						~		•
est Conditions			Phase 1	Phase 2	Phase 3	Phase 4		
	Ba	arometer (inHg)	28.77	28.77	28.77	1 11430 4		
		ell Temp (degF)	74.31	75.28	73.73			
	De	ew Point (degF)	49.19	49.00	49.07			
Sp		lity (grains/lbm)	54.05	53.65	53.77			
NOx Corr Factor			0.9104	0.9088	0.9093			
CO2 Dilution Factor			11.469	18.138	13.688			
	CFV Vr	mix (scf @68F)	2723.10	4666.80	2737.65			
	CVS Flow R	ate Avg (scfm)	322.20	321.66	324.11			
	F	an Placement: O	ne Fan - Up - F	ront				
	Pha	se Time (secs)	507.10	870.50	506.80			
		istance (miles)	3.586	3.858	3.595			
	Bag Analys	sis Time (secs)	0.088	1129.4	121.0			

I have validated the data in accordance with the requirements of TP 730

Validated By:

Miss

Date: // 4/0

v101007 - d329___EF

_EPAVDAEm101104080912

Page 2 of 2

Print Time 04-Nov-2010 09:43

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com] Cc:

Bcc:

From: CN=Lvnn Sohacki/OU=AA/O=USEPA/C=US

Tue 11/9/2010 1:42:17 PM Sent:

In-use vehicles scheduled for next week Subject:

In-Use Parameters Form.xls

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

Ex. 6 N002RXX-0133C (2008 Audi/A6) - VIN# 1000 Veh. Pick up on 11/16/10 (Tuesday) N001RXX-0136C (2008 Audi/A6) - VIN# Ex. 6 0900 Veh. Pick up on 11/17/10 (Wednesday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity 40% tank capacity tire pressure applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-

04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

1

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki **Environmental Protection Agency** (734)214-4851 (734)214-4869 fax

VW FOIA, EPA

To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Berenz, Sebastian"
Sent: Tue 11/9/2010 3:53:24 PM

Subject: RE: In-use vehicles scheduled for next week

N002RXX-0133C In-Use Parameters Form.pdf N001RXX-0136C In-Use Parameters Form.pdf

requested test procedure confirmatory program V4.pdf

Hello Lynn,

attached you will find the test parameters for two Audis for next week. I also attached the procedure which we used for the last Audis.

It would be great if you can send me the test results of N001RXX-0080C when they are available.

Please let me know if you have any questions.

Thank you very much.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Tuesday, November 09, 2010 8:42 AM

To: Berenz, Sebastian

Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N002RXX-0133C (2008 Audi/A6) - VIN# **Ex. 6** 1000 Veh. Pick up on 11/16/10 (Tuesday)

N001RXX-0136C (2008 Audi/A6) - VIN# **Ex. 6** 0900 Veh. Pick up on 11/17/10 (Wednesday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



EPA Vehicle Control Number:

National Vehicle and Fuel Emissions Laboratory 2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

N002RXX-0133C

Equivalent Test Weight :			4	1250.0	Pounds		_	
Nominal Fuel Tank Capacity	·			16.6	Gallons	40% Fill	6.64	Gallons
Drive Axle:		all wheel d	rive		r or All whe	or All wheel drive		
Tire Pressure:		see sticker	on driver	side	PSI			
Mfr. Shift Schedule (if requir	·ed)	n.a.	FTP	[n.a.]HWY	n.a.]US06
Vehicle Target Road-Load C	oefficients		Vehicle :	Set Ro	ad-Load	Coefficien	ts	
A 38.22	Lb-force			A[Lb-force	
B 0.47	Lb-force*	mph		в[Lb-force*	mph
c 0.0172	Lb-force*	mph ²		c[Lb-force*	mph ²
Does this vehicle qualify for relaxed	d in-use stan	dards as set i	forth in 40	CFR 86	6.1811-04(p)?		_(Y/N)
Vehicle Starting Instructions	, including	Traction	Control (lisabli	ng:			_
	,	,						
To avoid unnecessary delays, please prov Canister Loading Process:	ide specific ins	·	ictures (if nec	essary) t	for the followi	ng items:		
Fuel Draining Process:	see attached	manual						
ABS Disabling Process:	see attached	manual						
Fuel Switch Process (Flex Fuel	only):	n.a.						
Comments:	n.a.							
		For interna	I EPA Use	Only:				
	ny additional infe	ormation from th		er to this f	îorm)			
* Verbal instruction from the ma:* Other (specify)	nufacturer's repr	resentative						
Manufacturer Representative:	Sebastian	Berenz				_ Date:		11/9/2010
EG&G Representative:						_ Date:		
EPA Representative:						_ Date:		



National Vehicle and Fuel Emissions Laboratory 2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number	r:	N001RXX-0	136C]	
Equivalent Test Weight :			425	0.0	Pounds			
Nominal Fuel Tank Capacity			1	6.6	Gallons	40% Fill	6.64	Gallons
Drive Axle:		all wheel dri	ve		Front, Rea	r or All whe	el drive	
Tire Pressure:		see sticker	on driver sic	le	PSI			
Mfr. Shift Schedule (if requir	ed)	n.a.	FTP		n.a.]HWY	n.a.]US06
Vehicle Target Road-Load Co	oefficients		Vehicle Se	t R	oad-Load	Coefficie	nts	
A 38.22	Lb-force			Α			Lb-force	
B 0.47	Lb-force*	mph		В			Lb-force*	'mph
c 0.0172	Lb-force*	mph^2		С			Lb-force*	mph ²
Does this vehicle qualify for relaxed	l in-use stan	dards as set fo	orth in 40 C	FR :	86.1811-04(_]	p)?		(Y/N)
Vehicle Starting Instructions,	including	Traction (Control dis	sab	ling:			_
,		•						
To avoid unnecessary delays, please provi	de specific ins	tructions and pic	tures (if neces	sary) for the follow	ing items:		
•	see attached	manual						
Fuel Draining Process:	see attached	manual						
ABS Disabling Process:	see attached	manual						
Fuel Switch Process (Flex Fuel		n.a.						
Comments:	n.a.							
		For internal	EPA Use O	nly:				
This information was obtained from: * Letter, e-mail, fax or other doc (attach an * Verbal instruction from the man * Other (specify)	y additional infe	from the manufa	cturer					
Manufacturer Representative:	Sebastian	Berenz				_ Date:		11/9/2010
EG&G Representative:						_ Date:		
EPA Representative:						Date:		

From: "Hart, Robert (VWoA)" Tue 11/9/2010 9:25:43 PM Sent: Subject: Specifications and Calibration information for Power Measurement Shunt 2010-11-09 07-42-42.pdf 2010-11-09 07-57-08.pdf Hello Jim, Dr. Reisner gave me with some specifications and calibration information for the shunt that VW provided on the Touareg Hybrid to measure the power for the hybrid tests. He thought that the EPA might want it for documentation. See attachments. Best regards, **Bob Hart** Robert Hart **Engineering and Environmental Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

To:

Phone: (248) 754-4224

E-mail: robert.hart@vw.com

Fax: (248) 754-4207

Jim Snyder/AA/USEPA/US@EPA[]



№ 2009E12385

Quality Assurance Department

Date Nov. 9, 2009

CALIBRATION CERTIFICATE

Customer	
	HIOKI E.E. CORPORATION
	Y. Taki
	Inspector

Model : 9278

Name : UNIVERSAL CLAMP ON CT

Production№ : 090900270

The above listed product(s) is/are calibrated in accordance with the HIOKI standards. This also certifies that all reference instruments used in the calibration process can be traced back to all or some of the official standards laboratories of the nations affiliated with the International Committee for Weights and Measures (CIPM), such as the National Institute of Advanced Industrial Science and Technology, the National Institute of Information and Communications Technology, and NIST (National Institute of Standards and Technology).

Instruments used

Model	Name	Control number	Production number
5520A	CALIBRATOR	000-10-115	8475009
3458A	MULTIMETER	000-20-193	US28030720
6620	PRECISION PHASEMETER	000-21-002	459
R9211B	FFT SERVO ANALYZER	505-55-008	02020139
4025	HIGH SPEED POWER AMPLIFIER/SUPPLY	000-50-079	145901
	SHUNT RESISTOR (10Ω)	505-31-087	
10A/100mV	TRIAX-SHUNT	000-31-163	R719364

Note: The issuing date of this CALIBRATION CERTIFICATE may differ from the inspection date in the INSPECTION DATA SHEET.



検 査 成 績 表

<INSPECTION DATA SHEET>

												1/1
品名 <model na<="" td=""><td>me></td><td></td><td>(</td><td>ユニバー</td><td>サルク</td><td>ランプオン</td><td>ンCTくし</td><td>UNIVE</td><td>RSAL C</td><td>CLAMP</td><td>ON CT></td><td>)</td></model>	me>		(ユニバー	サルク	ランプオン	ンCTくし	UNIVE	RSAL C	CLAMP	ON CT>)
形名 <model nu<="" td=""><td>mber></td><td></td><td>(</td><td>9</td><td>278</td><td></td><td>)</td><td></td><td></td><td></td><td></td><td></td></model>	mber>		(9	278)					
製造番号〈Prod	uction	No.>	. (No. O	90900	270)					
検査年月日 <te< td=""><td>st Date</td><td>e></td><td>(</td><td>2009<i>\$</i> <y< td=""><td>•</td><td>月 9日 m> 〈d〉</td><td></td><td></td><td></td><td></td><td></td><td></td></y<></td></te<>	st Date	e>	(2009 <i>\$</i> <y< td=""><td>•</td><td>月 9日 m> 〈d〉</td><td></td><td></td><td></td><td></td><td></td><td></td></y<>	•	月 9日 m> 〈d〉						
検査条件 <test< td=""><td>Condit</td><td>ion></td><td>(</td><td>22.6 °C</td><td>C,</td><td>55 %rh</td><td>)</td><td></td><td></td><td></td><td></td><td></td></test<>	Condit	ion>	(22.6 °C	C,	55 %rh)					
検査周波数 <te< td=""><td>st freq</td><td>uency></td><td>(</td><td></td><td>50Hz</td><td>:</td><td>)</td><td></td><td></td><td></td><td></td><td></td></te<>	st freq	uency>	(50Hz	:)					
				 校正	值〈Ca	libration>						
項 目 〈Item〉		全 at point>	l .	力基底值 ɪcial value)	>		午容範围 olerand				出力値 〈Output〉	
振幅確度 <amplitude accur<="" td=""><td>acy></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></amplitude>	acy>											
	AC	200 A	AC	2.0000	٧	1.9890 V	~	2.01	10 V	(2.0022	2 V)
	AC	20 A	AC	0.2000	٧	0.1980 V	· ~	0.20)20 V	(0.2004	V)
	AC	2 A	AC	0.0200	٧	0.0189 V	~	0.02	211 V	(0.0201	V)
	DC	+200 A	DC	+2.0000	V +	-1.9890 V	~	+2.01	10 V	(+2.003	1 V)
	DC	0 A	DC	0.0000	V -	0.0010 V	~	+0.00)10 V	(+0.000	1 V)
	DC	-200 A	DC	-2.0000	V -	2.0110 V	~	-1.98	890 V	(-2.002	1 V)
項目		,	Input>			許容範	5囲	<u> </u>			間位相差	
tem	<c< td=""><td>電流 Current></td><td></td><td>]波数 quency></td><td></td><td><tolera< td=""><td>nce></td><td></td><td><phase< td=""><td></td><td>ce betwee input and</td><td></td></phase<></td></tolera<></td></c<>	電流 Current>]波数 quency>		<tolera< td=""><td>nce></td><td></td><td><phase< td=""><td></td><td>ce betwee input and</td><td></td></phase<></td></tolera<>	nce>		<phase< td=""><td></td><td>ce betwee input and</td><td></td></phase<>		ce betwee input and	
位相確度 <phase accuracy<="" td=""><td>> AC</td><td>100 A</td><td>5</td><td>0 Hz</td><td>-0.</td><td>20°~</td><td>+0.20</td><td>0°</td><td>(</td><td>-1</td><td>-0.05 °</td><td>)</td></phase>	> AC	100 A	5	0 Hz	-0.	20°~	+0.20	0°	(-1	-0.05 °)
備考〈Note〉 1.9278の電源 〈Model 927 2.入出力間位 〈Phase diffe	8 is cor 相差は	nnected to 、位相差記	mode †を用し	9555 SE ハて検査し	NSOR _ン ます。	UNIT for	power	suppl		nonitor	out.>	
総合判定	: <judg< td=""><td>gment></td><td></td><td>検査者</td><td> ğ<insp< td=""><td>ected b</td><td>oy></td><td></td><td>承認者</td><td>ť<app< td=""><td>roved b</td><td>y></td></app<></td></insp<></td></judg<>	gment>		検査者	 ğ <insp< td=""><td>ected b</td><td>oy></td><td></td><td>承認者</td><td>ť<app< td=""><td>roved b</td><td>y></td></app<></td></insp<>	ected b	oy>		承認者	ť <app< td=""><td>roved b</td><td>y></td></app<>	roved b	y>
(I	PASS)		(^{îv}	1. F	VKAI	·)		(X). A	Saka	prohi)

No. 9278-2

16

Chapter 3 Specification

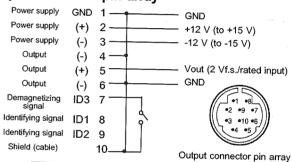
Model	9277	9278
Rated current (AC/DC)	20 A f.s.	200 A f.s.
Output voltage (AC/DC)	2 V/20 A	2 V/200 A
The maximum permissible input range (DC to 3 kHz)	50 Arms (75 Apeak)	350 Arms (500 Apeak)
Input resistance (DC)	Max. 0.05 mΩ	Max. 0.002 mΩ
Output resistance	50 Ω	
Basic accuracy 23±3°C (73±5°F)	DC and 45 Hz to 66 more warming-up a Amplitude: ±0.5% Phase: within ±0 (DC has no provis	fter degaussing rdg. ±0.05% f.s. 2°
Period of guaranteed accuracy	1 year	
Amplitude-frequency characteristic (deviation from accuracy)	1 k to 50 kHz 50 k to 100 kHz	within ±1.0% within ±2.5% within ±5.0%
Phase-frequency characteristic	1 k to 50 kHz 50 k to 100 kHz	
Temperature coefficient	Sensitivity: within Offset: within ±0.	005% f.s. /°C
Operating temperature and humidity range	0 to 40°C (32 to 1 Max. 80%RH (no	condensation)
Storage temperature and humidity range	-10 to 50°C (14 to Max. 80%RH (no	condensation)
Effect of conductor position	Within ±0.5% (DC, 55 Hz)	Within ±1.5% (DC, 55 Hz)

Chapter 2 Measurement Procedure

Chapter 3 Specification

Model 9277 9278 Effect of external Max. 0.2 A Max. 1 A magnetic field (400 A/m, 55 Hz and DC) Dielectric strength 3536 VrmsAC for 15 seconds. (between case and clamp sensor (aperture)) (between electric circuit and case, between electric circuit and core, between electric circuit and clamp sensor (aperture) Maximum rated 600 V (CATII), 300 V (CATIII) voltage to earth Operating environment Indoor, <Height 2000 m (6562 feet) Diameter of 20 mm (0.79") or less measurable conductors Supply voltage ±12 V to ±15 V (with accuracy guaranty but tracking) Power supply ±150 mA ±250 mA capacity (with rated input) (with rated input) Supply consumption Max. 3.6 W Max. 7.2 W (with rated input) (with rated input) Dimensions and Approx. 176W×69H×27D mm mass (6.93"W×2.72"H×1.06"D)(excluding projections) Approx. 470 g (16.6 oz.) Cord length Approx. 3 m (9.84 feet) Accessories 9375 CARRYING CASE Instruction manual Markband 6 (3 set) Standards Safety: EN61010-2-032:2002 Type B current sensor Measurement category II, III, Pollution Degree 2 (4000 V expected EMC: transient Overvoltage) EN61326:1997+A1:1998+A2:2001 +A3:2003

Output connector pin array



	9277	9278
ID1	Connect to GND	Connect to GND
ID2	N.C	Connect to GND

Mating receptacle RM515ERB-10SD (HIROSE)



- Be careful to avoid connecting voltage improperly, as the internal circuitry may be destroyed.
- The capacity of the power supply is at least ± 0.5 A.
- Demagnetization occurs after pin 7 is shorted to ground and then opened.

Chapter 3 Specification

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Wed 11/10/2010 5:40:18 PM

Subject: Test data for in-use vehicle N001-0080c

N001RXX-0080C.pdf

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

ADX

NVFEL Laboratory Test Data

Final Laboratory Test Results

Test Number: 2011-0021-003

Test Date: 11/9/2010 Key Start: 10:40:00

Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel Test Procedure: 03 HWFET (hwfetprep_hwfet)

Calculation Method: Gasoline

Pretest Remarks:

Vehicle ID: N001RXX-0080C

MFR Name AUDI

MFR Codes: 640

Config #: 00

Transmission: AUTO Shift Schedule: A09980011

Beginning Odometer: 019997.0 MI

Drive Schedule: hwfet_hwfet

- 1								
A CONTRACTOR OF	Bag Data Phase 1 Sample Ambient Net Concentration	HC-FID (ppmC) 3.742 3.114 0.836	CO (ppm) 30.032 0.052 29.984	NOx (ppm) 0.376 0.060 0.320	CO2 (%) 0.891 0.047 0.846	CH4 (ppm) 2.339 2.309 0.184	NonMeth HC (ppmC)	TOTATA SESSA SINA SINA SINA SENSO SINA SENSO SEN

Remarks:

Phase 2

Sample Ambient

Net Concentration

Test Information

Remarks:

Phase 3

Sample Ambient Net Concentration

Remarks:

Phase 4

Sample **Ambient** Net Concentration

Remarks:

3		CONTRACTOR AND RESIDENCE PROPERTY OF THE PARTY OF THE PAR						
į	Results	HC-FID	^^	A LC		CONTROL OF THE PROPERTY OF THE		
ì	Annual Contraction of the Contra	110-110	<u>CO</u>	<u>NOx</u>	CO2	CH4	NMHC	Vol MPG
ì		(comma)	/		and the same of th	C31 1-1	INIVITIO	VOLIVIEG
ŝ		(gpm)	(gpm)	(gpm)	(gpm)	(anm)	(ann)	(·
3	Dhanad				(9pm)	(gpm)	(gpm)	(mpg)
ı	Phase 1	0.008	0.579	0.009	257.0	0.000		
900			0.010	0.003	231.0	0.002	0.006	34.469
8								0 ,, 100

Fuel Economy

Gasoline MPG Phase 1

34.44

Dyno Settings

Dyno #: D329 - AWD

Inertia: 4250

EPA Set Co A: -0.45 EPA Set Co B: 0.2586

EPA Set Co C: 0.01656

Emiss-Bench: Mexa 7200sle

v101007 - d329

_EPAVDAEm101109101211

Page 1 of 2

Print Time 09-Nov-2010 11:11

	NVFEL	Laboratory T	est Data			CVS
Test Number: 2	Final L	aboratory Test	Results			
Results HC-FID	<u>CO</u>	<u>NOx</u>	<u>CO2</u>		N001RXX-008	CONCERNO DATA DE LA CONTRACTOR DE LA CON
Phase 1 0.082	(grams) 5.943	(grams) 0.095	(grams) 2636.3	<u>CH4</u> (grams) 0.021	<u>NMHC</u> (grams) 0.061	Meth Respor 1.143
Test Conditions	Phase 1	Phase 2	Phase 3	Phase 4		
Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF) Specific Humidity (grains/lbm) NOx Corr Factor CO2 Dilution Factor CFV Vmix (scf @68F)	29.13 74.71 49.24 53.46 0.9081 14.989 6011.93			1.11835 4		
CVS Flow Rate Avg (scfm)	471.46					
Fan Placement: O Phase Time (secs) Distance (miles) Bag Analysis Time (secs)	ne Fan - Up - Fr 765.10 10.258 104.8	ont				
I have validated the data in acc	ordance with the	requirements o	FTP 730			
Validated By:			Date:	19/10		

11/9/2010 11:11 AM

v101007 - d329 EPAVDAEm101109101211

20080609183200

Page 2 of 2

VTAURdxxx.xls

Print Time 09-Nov-2010 11:11

VW FOIA, EPA

	MATERIAL MATERIAL CONTRACTOR CONT							CIS
				_ Laboratory			SNA STATE	CVS
80000000000000000000000000000000000000		Teet Number		Laboratory Tes	t Results	سسد و د پار پ	NINGAMOR	~ ~
Test Information	3	Test Date:	2011-0021-002				N001RXX-008	DC
181ED 8747		Start / Hot Soak:		7		MFR Name MFR Codes:		ADX
(1) (1)		uel Container ID:		•		Config #:		ADA
	1		61 Tier 2 Cert	Cest Fuel		Transmission:		
§ 11/2 8		Test Procedure:			N LOAD)(ftp	Shift Schedule:		
		culation Method:			, , ,	Beginning Odometer:		
SCPROTES	Р	retest Remarks:				Drive Schedule:		
						Soak Period:		
Par Data								
Bag Data Phase 1		HC-FID	<u>co</u>	NOx	<u>CO2</u>	CH4	NonMeth HC	
Sampl	0	(ppmC) 19.545	(ppm) 46.206	(ppm) 2.269	(%)	(ppm)	(ppmC)	
Ambier		3.111	0.011	0.098	1.147 0.046	3.719 2.259		
Net Concentratio		16.702	46.196	2.180	1.104	2.259 1.655	14.810	
		70.70	40.100	2.100	1.104	1.000	14.610	
asin 4	Remarks:							
Phase 2		en la voie	40.0	£	_			
Sample Ambien		3.192	12.945	0.072	0.728	2.182		
Ambieri Net Concentration		3.077 0.283	0.001 12.944	0.072 0.004	0.045	2.265		
rect Concentiation	1	0.263	12.944	0.004	0.685	0.040	0.237	
	Remarks:							
Phase 3								
Sample	9	3.944	17.670	0.196	0.949	2.415		
Ambien		3.060	0.000	0.058	0.046	2.260		
Net Concentration	1	1.101	17.670	0.142	0.905	0.315	0.741	
	Remarks:							
<u>Phase 4</u>								
Sample								
Ambien Net Concentration								
ivet Concentration	ı							
	Remarks:							
Results	Bassania Maria Caratta (Caratta Caratta Caratta Caratta Caratta Caratta Caratta Caratta Caratta Caratta Caratt	HC-FID	CO	NOx	CO2	CH4	NMHC	Vol MPG
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	Phase 1	0.211	1.177	0.083	442.1	0.024	0.187	19.995
	Phase 2	0.006	0.527	0.000	438.5	0.001	0.005	20.238
	Phase 3	0.014	0.452	0.005	364.1	0.005	0.009	24.367
Fuel Economy	Weighted	0.05061 Gasoline MPG	0.64172	0.01881	418.775		0.04392	
	Phase 1	19.98				Dyno Settings		D329 - AWD
	Phase 2	20.22					Inertia: EPA Set Co A:	
	Phase 3	24.34					EPA Set Co B:	
						*	EPA Set Co C:	
	184.1.1.			*	*	*		
101007 - d329 EF	Weighted PAVDAEm10110	21.14	MANAGER CONTRACTOR CON	D 4 - 4 D			Emiss-Bench:	
101007 - 0329 EF	WANWELLI IN J. J.	09090001		Page 1 of 2		RUDALE HALDE HAVE	Print Tin	ie 09-Nov-2010 10:12

06/20/2017

				Laboratory T				CVS
		Test Number: 2	Final I 011-0021-002	_aboratory Test	Results	Vehicle ID:	N001RXX-008	00
<u>Results</u>		HC-FID	<u>CO</u>	NOx	<u>CO2</u>	CH4	NMHC	Meth Respons
THITED STATES	Phase 1 Phase 2 Phase 3	(grams) 0.754 0.022 0.050	(grams) 4.212 2.016 1.614	(grams) 0.296 0.001 0.019	(grams) 1582.3 1676.0 1299.6	(grams) 0.086 0.004 0.017	(grams) 0.669 0.018 0.034	1.143
est Conditions			Phase 1	Phase 2	Phase 3	Phase 4		
	Ba	rometer (inHg)	29.13	29.13	29.13			
	Avg Ce	Il Temp (degF)	75.07	74.29	74.81			
_	De	w Point (degF)	49.11	49.06	49.15			
Sp	ecific Humid	ity (grains/lbm)	53.21	53.10	53.29			
		Ox Corr Factor	0.9071	0.9067	0.9074			
		Dilution Factor	11.618	18.369	14.095			
	CFV VI	nix (scf @68F)	2765.19	4723.31	2770.17			
	CVS Flow R	ate Avg (scfm)	327.11	325.93	328.09			
	F	an Placement: O	ne Fan - Un - F	imat				
	Phas	se Time (secs)	507.20	869.50	506.60			
		stance (miles)	3.579	3.822	3.569			
	Bag Analys	is Time (secs)	879.0	1100.3	120.9			

I have validated the data in accordance with the requirements of TP	730	
Validated By:	Date:	11-9-10
	-	

v101007 - d329___EPAVDAEm101109090557

Page 2 of 2

Print Time 09-Nov-2010 10:12

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Wed 11/10/2010 6:24:30 PM

Subject: RE: In-use vehicles scheduled for next week

Hi, Sebastian.

This sheet indicates that this vehicle is an auto trans. Actually, it is a manual. Please send the shift schedule you'd like us to use.

Thanks.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 11/04/2010 02:21 PM

Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the parameters for the 2.0 Passat.

Let me know when we should be in Ann Arbor for the inspection on Monday.

If you have any results for the Audi A6 3.1I, it would be great if you can forward them to me.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America

Phone: (248) 754-4211

Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, November 04, 2010 1:13 PM

To: Berenz, Sebastian

Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0162 (2008 VW/Passat) - VIN# **Ex. 6** 11/08/10 (Monday) 1200 Incoming.

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity 40% tank capacity tire pressure

applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-

04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax (See attached file: In-Use Parameters Form.xls)

[attachment "In-Use Parameters Form_N148RXX-0162 _ Ex. 6 pdf" deleted by Lynn
Sohacki/AA/USEPA/US] [attachment "Fuel Drain Instuctions.pdf" deleted by Lynn Sohacki/AA/USEPA/US]

To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Berenz, Sebastian"

Sent: Wed 11/10/2010 8:23:52 PM

Subject: RE: In-use vehicles scheduled for next week

In-Use Parameters Form N148RXX-0162 Ex. 6 Version2.pdf

Hello Lynn,

Attached you will find the updated version.

Please let me know if the "old" CFIS numbers are working for you.

If not let me know.

Best regards.

Sebastian

----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Wednesday, November 10, 2010 1:25 PM

To: Berenz, Sebastian

Subject: RE: In-use vehicles scheduled for next week

Hi, Sebastian.

This sheet indicates that this vehicle is an auto trans. Actually, it is a manual. Please send the shift schedule you'd like us to use.

Thanks.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" < Sebastian. Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 11/04/2010 02:21 PM

Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

Attached you will find the parameters for the 2.0 Passat.

Let me know when we should be in Ann Arbor for the inspection on Monday.

If you have any results for the Audi A6 3.1l, it would be great if you can forward them to me.

Thank you very much.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, November 04, 2010 1:13 PM

To: Berenz, Sebastian

Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N148RXX-0162 (2008 VW/Passat) - VIN# **Ex. 6** 11/08/10 (Monday) 1200 Incoming.

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity 40% tank capacity tire pressure applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)
[attachment "In-Use Parameters Form_N148RXX-0162 _ Ex. 6 .pdf"
deleted by Lynn Sohacki/AA/USEPA/US] [attachment "Fuel Drain
Instuctions.pdf" deleted by Lynn Sohacki/AA/USEPA/US]



National Vehicle and Fuel Emissions Laboratory 2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Numbe	r:	N148RXX	(-0162]
Equivalent Test Weight:			3625	.0 Pounds		
Nominal Fuel Tank Capacity	:		18	.5 Gallons	40% Fill	7.4 Gallons
Drive Axle:		front		Front, Re	ar or All whe	eel drive
Tire Pressure:			;	33 PSI		
Mfr. Shift Schedule (if requir	red)	0005	FTP	0006	HWY	n.a. US06
Vehicle Target Road-Load C	oefficients	S	Vehicle	Set Road-	Load Coef	ficients
A 33.72	Lb-force			Α		Lb-force
B 0.134	Lb-force*	mph		В		Lb-force*mph
c 0.0179	Lb-force*	mph ²		с		Lb-force*mph ²
Does this vehicle qualify for relaxed	d in-use star	ıdards as s	et forth in 4	40 CFR 86.18	811-04(p)?	<u>N</u> (Y/N)
Vehicle Starting Instructions	, including	g Traction	n Contro	l disabling:		
see attached document						
To avoid unnecessary delays, please prov	vide specific in	structions an	d pictures (if	necessary) for	the following ite	ms:
Canister Loading Process:	see attac	ched doc	ument			
Fuel Draining Process:	see attac	ched doc	ument			
ABS Disabling Process:						
	see attac	ched doc	ument			
Fuel Switch Process (Flex Fuel	only):	n.a.				
Comments:						
	F	or internal	FPA Use (Only.		
This information was obtained from: * Letter, e-mail, fax or other doc (attach an) * Verbal instruction from the mail * Other (specify)	ument delivered by additional inf	d from the man	ufacturer	urer to this form))	
Manufacturer Representative:	Sebastian	Berenz VV	VGoA		Date:	11/4/2010
EG&G Representative:					Date:	
EPA Representative:					Date:	

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 11/15/2010 8:03:41 PM Subject: 1st test results of Hybrid

1st tests 2011 VW hybrid.pdf

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 11/16/2010 3:30:27 PM

Subject: Fw: Confirmatory Test Date assigned for (VW526710023 / 0)

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov
----- Forwarded by Jim Snyder/AA/USEPA/US on 11/16/2010 10:29 AM -----

From: VerifyAdministrator@verify-as1.epa.gov

To: Jim Snyder/AA/USEPA/US@EPA, Stephen Healy/AA/USEPA/US@EPA

Date: 11/16/2010 10:03 AM

Subject: Confirmatory Test Date assigned for (VW526710023 / 0)

PLEASE DO NOT REPLY TO THIS EMAIL!

A Confirmatory Test Date has been set for the following vehicle:

Test Date: 11/19/2010 Manufacturer: VWX Vehicle ID: VW526710023 Vehicle Configuration: 0

To: Leonard.Kata@vw.com[]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 11/16/2010 6:04:21 PM

Subject: Pre-cert mtg cert preview mtg reqmnts.pdf

Hi Len, I was just talking to Bob Hart and he said VW is planning on releasing some 2012MY vehicles start of January. I thought I'd remind you that prior to any 2012 certification, it is required to have a Precert mtg which includes VW's proposed strategy for meeting the GHG requirements. The GHG plans are to show that you have a viable plan worked out. We realize this is new and plans may change but we want to verify that the manufactures understand it correctly.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY
2565 PLYMOUTH ROAD
ANN ARBOR, MICHIGAN 48105-2498

OFFICE OF AIR AND RADIATION

October 6, 2003

Dear Manufacturer:

CCD-03-12 (LDV/LDT/ICI/LIMO)

Subject: Model Year 2005 Compliance Preview Meeting

EPA is conducting its annual review of your certification, in-use compliance and fuel economy plans for the 2005 model year and would like to meet with you to facilitate the early resolution of any concerns and expedite the certification process. At your convenience, please contact your EPA certification representative to schedule a date for this meeting. Discussion topics will include your compliance plans for the upcoming model year and any new product offerings and/or technologies you may be intending to introduce. Enclosure I contains a detailed list of the topics we would like you to discuss.

As in the past, for our laboratory planning purposes, we are also asking you to submit your projections for EPA confirmatory testing for the remainder of 2003 and the entire 2004 calendar years. Enclosure II is a spreadsheet for you to complete and return to your EPA certification representative.

If you are unable to meet in person with us, please submit a written response to the items contained in Enclosures I and II. If you have already had a 2005 preview meeting with EPA, please schedule another brief meeting (or send a written response) to address or update topics that were not covered in the first meeting.

We look forward to meeting with you.

Sincerely,

Merrylin Zaw-Mon, Director

Certification and Compliance Division

Office of Transportation and Air Quality

Enclosures:

Enclosure I - Model Year (MY) 2005 Discussion Topics for the Annual

Certification Preview Meeting for Light-Duty and Heavy-Duty Vehicles (chassis

dynamometer certified)

Enclosure II - EPA Light-duty& Heavy-duty Chassis Dynamometer Manufacturer

Test Request Projections

Enclosure I

Model Year (MY) 2005 Discussion Topics for the Annual Certification Preview Meeting for Light-Duty and Heavy-Duty Vehicles (chassis dynamometer certified)

1. Structure of Your Organization

1.1 Provide an overview of your organization detailing the functions and staff responsible for fuel economy, certification and in-use programs.

2. Product Line Plans

- 2.1 Detail your product plans for MY 2005 to include information regarding any new technologies, car lines, engines, transmissions, emission controls, fuel economy improvements and/or any other technology that may be introduced.
- 2.2 Will you certify any new sport utility vehicles, mini-vans, or non-conventional trucks (e.g., passenger-oriented pick-ups with a small cargo bed) that have not been previously certified? Detail your reasoning for certifying any of these as light-duty vehicles, light-duty trucks, or heavy-duty trucks within the definitions contained in 40CFR 1803-01.

3. Certification Issues

- 3.1 Describe your MY 2005 light-duty vehicles, light-duty trucks, or heavy-duty trucks (chassis dynamometer) testing and certification plans and identify any critical dates related to them. Identify any early MY 2005 certification plans with dates. Provide your EPA certification representative with your Test Waiver Request plans using the table in Enclosure II within three weeks of your preview meeting, or sooner.
- 3.2 Provide an overview of your certification program for MY 2005. Include a list of Test Groups and Durability Groups. For heavy-duty chassis certified vehicles, provide information about the emission standards to which these vehicles will be certified, including the option, FELs averaging, banking and trading, transferring credits, etc.
- 3.3 Advise the status of your durability/in-use program. Identify any trends. Provide an overview of the in-use test programs conducted in the past year and provide information concerning programs planned for 2005 and 2006 MY vehicles.
- 3.4 Summarize your phase-in plans for Tier 2, Interim Non-Tier 2, Clean fuel Vehicle Heavy-duty (chassis certified) vehicles and California LEV-II vehicles.
- 3.5 Describe any plans to certify alternative fueled vehicles, diesel vehicles, hybrid

and fuel cell vehicles, and new technology (e.g., direct injection) for 2005-2007 model years.

Describe any special testing methods that will be employed.

- 3.6 Describe your phase-in plans for ORVR indicating what MY 2005 Test Groups/Evap Families will incorporate ORVR.
- 3.7 Do you have any OBD issues? Do you have any Test Groups that will not require California OBD approval?
- 3.8 Do you have any NLEV issues? Explain how you will meet the fleet average NMOG emission standards described in 40 CFR 86.1711-99 for 2005 model year vehicles. The MY 2003 annual report is due May 1, 2004. Will you end up with NLEV credits at the end of the year? If not, please explain your plans to purchase credits.
- 3.9 Please provide an overview of the laboratory equipment which will be used to measure emissions from Tier 2 vehicles and zero evaporative vehicles.

4. Fuel Economy Issues

- 4.1 Will you have any driver selectable devices or multi-mode transmissions in your product line that have not previously received EPA approval? Please describe how they operate. Are any vehicles equipped with any driver selectable devices that prevent the engagement of certain gears, prevent lock-up, or prevent overdrive operation? If so, does the driver selectable device reset to the enable position after the ignition is turned off?
- 4.2 Describe the method of operation for any semi-automatic transmissions in your product offering that may be easily operated in either automatic or manual mode. Explain how such vehicles will be tested for fuel economy purposes.
- 4.3 Discuss any fuel economy labeling or CAFÉ issues.

5. In-use Performance and Compliance Program

- 5.1 Provide an overview for any in-use testing programs conducted in the past year for MY 1998-2003 vehicles other than for alternative durability and CAP 2000 testing programs. How many vehicles were tested?
- Provide an overview of the process your company uses to submit emission related defect reports to EPA (ref. 40 CFR 85.1901). Describe whom is responsible for submitting these reports to EPA and their time line for doing so. Describe your

process for notifying owners/leasees of recall actions.

- 5.3 Explain the methods used to track emission related component failures as they occur in the field. Describe how you ensure that EPA is notified of a defect within fifteen (15) days after an emission component has twenty-five (25) warranty claims for the same model year vehicle(s) and/or engine(s).
- Provide an overview of the process your company uses to correct defects after they have been discovered. Discuss the elements involved in redesign, manufacture, distribute replacements to manufacturing, distributors, dealers, etc. Include the method of communicating the corrections and instructions for implementing them to all involved parties.

6. Other Issues

6.1 Discuss any other pertinent information not previously outlined above that may be related to the certification process, in-use compliance and fuel economy.

Enclosure II EPA Light-duty& Heavy-duty Chassis Dynamometer Mfr. Test Request Projections

MFR:		2004 CALENDAR YEAR								
Test Procedure: Dyno Type: Fuel Type: 2003	FTP Twin Roll Gasoline*	SFTP Single Roll Gasoline*	2-D Evap Any Any	SFTP Single Roll Any	FTP Any Non-gasoline**					
Oct 1-15	-									
Oct 16-31										
Nov 1-15	-									
Nov 16-30										
Dec 1-15										
Dec 16-31										
2004										
Jan 1- 15										
Jan 16-31										
Feb 1- 15										
Feb 16-29										
Mar 1-15										
Mar 16-31										
Apr 1-15										
Apr 16-30										
May 1-15										
May 16-31										
Jun 1-15										
Jun 16-30										
July 1-15										
July 16-31										
Aug 1-15										
Aug 16-31										
Sept 1-15										
Sept 16-30										
Oct 1-15					<u> </u>					
Oct 16-31										
Nov 1-15										
Nov 16-30	_									
Dec 1-15										
Dec 16-31										

^{*}Gasoline includes Indolene and Phase II test fuel
**Please indicate the type of fuel which will be used.

From: Sent: Tu	m Snyder/AA/USEPA/US@EPA[] Ex. 7] ue 11/16/2010 6:30:57 PM E: Pre-cert mtg
Hello Jim:	
	e reminder. We are putting the finishing touches on our pre-certification letter and 2012 pre-model GHG report. I will be contacting you within the next few days to schedule a
Regards,	
Ex. 7	
	Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov] , November 16, 2010 1:04 PM Ex. 7 ert mtg
start of Januar cert mtg which to show that y	just talking to Ex. 7 and he said VW is planning on releasing some 2012MY vehicles ry. I thought I'd remind you that prior to any 2012 certification, it is required to have a Prehincludes VW's proposed strategy for meeting the GHG requirements. The GHG plans are you have a viable plan worked out. We realize this is new and plans may change but we that the manufactures understand it correctly.
Jim Snyder	

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Tue 11/16/2010 8:35:48 PM

Subject: In-use vehicles scheduled for next week

In-Use Parameters Form.xls

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N149RXX-0059 (2008 VW/Passat) - VIN# \ **Ex. 6** 0930 vehicle incoming on 11/22/10 (Monday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.181104(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have
preferred method for loading the canister
preferred fuel drain method
any special starting procedures
ABS disabling instructions
for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Tue 11/16/2010 8:37:36 PM

Subject: Reminder: In-use vehicles scheduled for next week

In-Use Parameters Form.xls

Hi, Sebastian.

Have you had a chance to prepare this information? We'll need it soon.

Thanks.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

---- Forwarded by Lynn Sohacki/AA/USEPA/US on 11/16/2010 03:36 PM -----

From: Lynn Sohacki/AA/USEPA/US

To: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

Date: 11/09/2010 08:42 AM

Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

04(p)?)

Listed below is the information for the vehicles that we have scheduled for next week.

N002RXX-0133C (2008 Audi/A6) - VIN# **Ex. 6** 000 Veh. Pick up on 11/16/10 (Tuesday)

N001RXX-0136C (2008 Audi/A6) - VIN **Ex. 6** 0900 Veh. Pick up on 11/17/10 (Wednesday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients
fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions

for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Berenz, Sebastian"

Sent: Tue 11/16/2010 11:03:53 PM

Subject: FW: In-use vehicles scheduled for next week

N002RXX-0133C In-Use Parameters Form.pdf N001RXX-0136C In-Use Parameters Form.pdf

requested test procedure confirmatory program V4.pdf

Hello Lynn,

I was all day in Ann Arbor inspecting the first Audi A6 with Marc and Vince. Tomorrow morning we will be finishing this car and start with the second one.

Attached I send you the data for both cars.

Best regards

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----From: Berenz, Sebastian

Sent: Tuesday, November 09, 2010 10:53 AM

To: 'Sohacki.Lynn@epamail.epa.gov'

Subject: RE: In-use vehicles scheduled for next week

Hello Lynn,

attached you will find the test parameters for two Audis for next week. I also attached the procedure which we used for the last Audis.

It would be great if you can send me the test results of N001RXX-0080C when they are available.

Please let me know if you have any questions.

Thank you very much.
Best regards.
Sebastian Berenz
Manager In-Use Emission Compliance Enviromental Engineering Office
Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America
Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207 E-Mail: sebastian.berenz@vw.com
http://www.volkswagen.com
P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!
Original Message From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov] Sent: Tuesday, November 09, 2010 8:42 AM To: Berenz, Sebastian Subject: In-use vehicles scheduled for next week
Hi, Sebastian.
Listed below is the information for the vehicles that we have scheduled for next week.
N002RXX-0133C (2008 Audi/A6) - VIN# Ex. 6 1000 Veh. Pick up on 11/16/10 (Tuesday)
N001RXX-0136C (2008 Audi/A6) - Ex. 6 0900 Veh. Pick up on 11/17/10 (Wednesday)
Please send the following to me for these vehicles before pick-up. Please use the attached form:
vehicle target road-load coefficients fuel tank capacity 40% tank capacity tire pressure applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)
To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



EPA Vehicle Control Number:

National Vehicle and Fuel Emissions Laboratory 2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

N002RXX-0133C

Equivalent Test Weight :				4250.0	Pounds		_	
Nominal Fuel Tank Capacity	:			16.6	Gallons	40% Fill	6.64	Gallons
Drive Axle:		all wheel d	all wheel drive Front, Rear or All wheel driv					
Tire Pressure:		see sticker	on driver	side	PSI			
Mfr. Shift Schedule (if requir	red)	n.a.	FTP		n.a.]HWY	n.a.	US06
Vehicle Target Road-Load Co	oefficients		Vehicle	Set Ro	ad-Load	Coefficien	ts	
A 38.22	Lb-force			Α			Lb-force	
B 0.47]Lb-force*	mph		В			Lb-force	*mph
c 0.0172	Lb-force*	mph ²		С			Lb-force	*mph ²
Does this vehicle qualify for relaxed	l in-use stan	dards as set i	forth in 40	CFR 8	6.1811-04(p)?		_(Y/N)
Vehicle Starting Instructions	. including	Traction	Control (disabli	ing:			_
		,						
To avoid unnecessary delays, please prov Canister Loading Process:	ide specific ins	·	ictures (if neo	cessary)	for the followi	ng items:		
Fuel Draining Process:	see attached	manual						
ABS Disabling Process:	see attached	manual						
Fuel Switch Process (Flex Fuel	only):	n.a.						
Comments:	n.a.							
		For interna	I EPA Use	Only:				
This information was obtained from: * Letter, e-mail, fax or other doc (attach ar.		I from the manuf		er to this f	form)			
* Verbal instruction from the man* Other (specify)	nufacturer's repr	resentative						
Manufacturer Representative:	Sebastian	Berenz				_ Date:		11/9/2010
EG&G Representative:						_ Date:		
EPA Representative:						_ Date:		



National Vehicle and Fuel Emissions Laboratory 2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Number	r:	N001RXX-0	136C]	
Equivalent Test Weight :			425	0.0	Pounds			
Nominal Fuel Tank Capacity	:		1	6.6	Gallons	40% Fill	6.64	Gallons
Drive Axle:		all wheel driv	/e		Front, Rea	r or All whe	el drive	
Tire Pressure:		see sticker c	n driver sid	е	PSI			
Mfr. Shift Schedule (if requir	ed)	n.a. F	TP		n.a.]HWY	n.a.]US06
Vehicle Target Road-Load Co	oefficients	•	Vehicle Se	t R	load-Load	Coefficie	nts	
A 38.22	Lb-force			Α	ı]Lb-force	
B 0.47	Lb-force*	mph		В]Lb-force*	mph
c 0.0172	Lb-force*	mph^2		С			Lb-force*	mph ²
Does this vehicle qualify for relaxed	l in-use stan	dards as set fo	rth in 40 Cl	FR	86.1811-04(p)?		(Y/N)
Vehicle Starting Instructions,								_(::::,
venicle starting instructions,	menanng	Traction	oner or wis		<u>s</u> .			
To avoid unnecessary delays, please provi	de specific ins	tructions and pict	tures (if neces	sary	r) for the follow	ing items:		
Fuel Draining Process	see attached	manual						
Fuel Draining Process:	see attached	manual						
ABS Disabling Process:	see attached	manual						
Fuel Switch Process (Flex Fuel	only):	n.a.						
Comments:	n.a.							
		For internal l	EPA Use O	nly:				
This information was obtained from: * Letter, e-mail, fax or other doc (attach an * Verbal instruction from the man * Other (specify)	y additional infe	from the manufac	cturer					
Manufacturer Representative:	Sebastian	Berenz						11/9/2010
EG&G Representative:						_ Date:		
EPA Representative:						_ Date:		

To: Lynn Sohacki/AA/USEPA/US@EPA[]
Cc: "Rhodes, Brian" [Brian.Rhodes@vw.com]

From: "Berenz, Sebastian" **Sent:** Fri 11/19/2010 2:44:23 PM

Subject: RE: In-use vehicles scheduled for next week

In-Use Parameters Form N149RXX-0059 V Ex. 6 pdf

Hello Lynn,

Sorry for being that late. But attached you will find the parameter sheet for the VW Passat that comes in on Monday next week.

I will not be in the office, but able to read mails or answer my cell phone.

Mr. Brian Rhodes from our group will be in Ann Arbor on Monday to inspect the car. The guys from URS already know about that.

If you have any questions, please let me know.

Best regards

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Tuesday, November 16, 2010 3:36 PM

To: Berenz, Sebastian

Subject: In-use vehicles scheduled for next week

Hi, Sebastian.

Listed below is the information for the vehicles that we have scheduled for next week.

N149RXX-0059 (2008 VW/Passat) - VIN# **Ex. 6** 30 vehicle incoming on 11/22/10 (Monday)

Please send the following to me for these vehicles before pick-up. Please use the attached form:

vehicle target road-load coefficients fuel tank capacity
40% tank capacity
tire pressure
applicable in-use standards (Does this vehicle qualify for relaxed in-use standards as per 86.1811-04(p)?)

To avoid unnecessary delays and correspondence, please also include explicit directions and, if necessary, pictures for:

disabling traction control, stability control and any load leveling the vehicle may have preferred method for loading the canister preferred fuel drain method any special starting procedures

ABS disabling instructions for flex-fuel vehicles, the fuel switch procedure

Please send the form electronically to me and I will pass it along to our contractor, URS, and lab personnel. Paper copies or e-mails sent directly to URS or lab personnel may result in incorrect information being distributed.

If you have any questions, please feel free to contact me. Thank you.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax

(See attached file: In-Use Parameters Form.xls)



National Vehicle and Fuel Emissions Laboratory 2565 Plymouth Road, Ann Arbor, Michigan 48105

Vehicle Parameters for In-use Testing

EPA Vehicle Control Numbe	r:	N149RXX	(-0059]
Equivalent Test Weight:			3875	.0 Pounds		
Nominal Fuel Tank Capacity	:		18	.5 Gallons	40% Fill	7.4 Gallons
Drive Axle:		front		Front, Re	ar or All whe	el drive
Tire Pressure:			3	B3 PSI		
Mfr. Shift Schedule (if requir	ed)	FTA	FTP	HWA	HWY	USA US06
Vehicle Target Road-Load C	oefficients	S	Vehicle	Set Road-	Load Coef	ficients
A 35.07	Lb-force			Α		Lb-force
B 0.507	Lb-force*	mph		В		Lb-force*mph
C 0.014	Lb-force*	mph ²		с		Lb-force*mph ²
Does this vehicle qualify for relaxed	l in-use star	ıdards as s	et forth in 4	10 CFR 86.1	811-04(p)?	<u>N</u> (Y/N)
Vehicle Starting Instructions	, including	g Traction	n Control	disabling	:	
see attached document						
To avoid unnecessary delays, please prov	ide specific in	structions an	d pictures (if I	necessary) for	the following ite	ms:
Canister Loading Process:	see attached document					
Fuel Draining Process:	see attached document					
ABS Disabling Process:	see attached document					
Fuel Switch Process (Flex Fuel		n.a.				
Comments:						
This information was obtained from: * Letter, e-mail, fax or other doc (attach an * Verbal instruction from the max * Other (specify)	ument delivered	1 from the mar		Only: urer to this form,)	
Manufacturer Representative:	Sebastian	Berenz VV	VGoA		Date:	11/19/2010
EG&G Representative:					Date:	
EPA Representative:					Date:	

To: Lynn Sohacki/AA/USEPA/US@EPA[]

Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Johnson, Stuart"

[Stuart.Johnson@vw.com] From: "Hennard, Mike"

Sent: Fri 11/19/2010 9:05:14 PM

Subject: Response to EPA Questions - 2007 Audi Q7 (Survelance Test Program)

4 2 Engine Family Response to EPA.pdf

mike.hennard@vw.com

Lynn:

Our colleagues at the Audi factory have finalized a reply to your questions that resulted from our July 2010 meeting at the EPA Ann Arbor office. I have attached a PDF file with Audi's written response. Please let me know if you have any comments or questions.

Thanks for your patience.

Michael Hennard

Manager - Emissions Compliance EEO

Volkswagen Group of America

3800 Hamlin Road

Auburn Hills, MI 48326

Telephone Number: 248 754 4202

Fax: 248 754 4207

mike.hennard@vw.com

Engine Family 7ADXT04.2358

VWGoA Response to EPA Questions

Following IUVP testing and EPA surveillance testing of the subject engine family, EPA has asked several questions related to the operation of the fuel system and OBD system of this vehicle.

Ex. 4 - CBI

Ex. 4 - CBI

OBD system:

Ex. 4 - CBI

Response to OBD questions:

Ex. 4 - CBI

Ex. 4 - CBI

Ex. 4 - CBI

EVAP Result on VIN:

Ex. 6

Ex. 4 - CBI

Failed test data

EVAPORATIVE EMISSIONS

Started (D@T) 10/29/2009 @ 11:05 Finished (D@T) 10/31/2009 @ 11:05 Start Temp (°F) 72.00 Test Length (hrs) Day 1 Total (gHC) 0.457028 Diurnal (gHC) 1.692560 Day 2 Total (gHC) 1,69256 Hot_Soak_HC_(g) 0.066508 Day 3 Total (gHC) Total Emissions (gHC) 1.759068

During the passed FTP the purge behavior is as designed and the Evap results are comparable with the results during certification (see below) and well below the standards

Passed test data

EVAPORATIVE EMISSIONS

Started (D@T) Start Temp (°F)	11/25/2009 @ 06:29 72.00	Finished (D@T) Test Length (hrs)	11/27/2009 @ 06:29 48
Day 1 Total (gHC)	0.379701	Diurnal (gHC)	0.519697
Day 2 Total (gHC)	0.519697	Hot_Soak_HC_(g)	0.034037
Day 3 Total (gHC)	0	Total Emissions (gHC)	0.553734

Cert test data

EVAP Emissions			
Running Loss	[g/mile]		0,000
Hot Soak	[g/test]	0,056	0,127
1st day	[g/test]	0,344	0,347
2nd day	[g/test]	0,261	0,262
3rd day	[g/test]	-	0,229
Hot Soak + 24 h diu. h	nighest		
Tiot Goak - 24 ii did. i	[g/test]	0,400	0,474

To: Jim Snyder/AA/USEPA/US@EPA[] Cc: David Good/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;"Kohnen, Christoph (VWGoA)" [christoph.kohnen@ww.com]; inc Wehrly/AA/USEPA/US@EPA;"Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com] From: "Kata, Leonard" Sent: Fri 11/19/2010 9:47:21 PM
Subject: 2012 Volkswagen Pre-Certification Document and Meeting Request
Hello Jim:
Thus far, we have completed preparation of the 2012 Volkswagen pre-certification letter, in accordance with the existing "Dear Manufacturer" guidance letter on this topic (CCD-03-12). Our letter will be filed with the VERIFY system today.
In the letter we state that we will follow with our 2012 Pre-Model Year GHG Report. We are finishing this right now and intend to submit the report to the VERIFY system in the very near future.
We also state that we would like to schedule a meeting. At the meeting we would walk through the precertification letter and attachments and present to 2012 pre-model year GHG report. As mentioned the documents will be available for your prior review.
With the Thanksgiving Holiday next week, staff schedules are somewhat mixed, as might also be the case at EPA. Therefore, I would like to propose a meeting with EPA on Wednesday, December 1, 2010.
Please let me know if this date is acceptable.
Best regards,
Len
Leonard W. Kata

VW FOIA, EPA 06/20/2017 2017-FFP_001853

Manager, Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: "Kata, Leonard" [Leonard.Kata@vw.com]

Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; N=David

Good/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA[];

N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 11/23/2010 9:57:59 PM

Subject: Re: 2012 Volkswagen Pre-Certification Document and Meeting Request

Thanks Len, December 1 is okay with me. I will check the schedule with the other guys and schedule a meeting time.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Kata, Leonard" < Leonard. Kata@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Cc: David Good/AA/USEPA/US@EPA, Linc Wehrly/AA/USEPA/US@EPA, "Kohnen, Christoph

(VWGoA)" <christoph.kohnen@vw.com>

Date: 11/19/2010 04:50 PM

Subject: 2012 Volkswagen Pre-Certification Document and Meeting Request

Hello Jim:

Thus far, we have completed preparation of the 2012 Volkswagen pre-certification letter, in accordance with the existing "Dear Manufacturer" guidance letter on this topic (CCD-03-12). Our letter will be filed with the VERIFY system today.

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Best regards,		
Len		
Leonard W. Kata		

Manager, Emission Regulations and Certification Engineering and Environmental Office Volkswagen Group of America, Inc.

Phone: (248) 754-4204 Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: "Kata, Leonard" [Leonard.Kata@vw.com]

Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; N=David

Good/OU=AA/O=USEPA/C=US@EPA;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA[];

N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA[]

Bcc:

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 11/23/2010 9:58:02 PM

Subject: Re: 2012 Volkswagen Pre-Certification Document and Meeting Request

Thanks Len, December 1 is okay with me. I will check the schedule with the other guys and schedule a meeting time.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Kata, Leonard" < Leonard. Kata@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Cc: David Good/AA/USEPA/US@EPA, Linc Wehrly/AA/USEPA/US@EPA, "Kohnen, Christoph

(VWGoA)" <christoph.kohnen@vw.com>

Date: 11/19/2010 04:50 PM

Subject: 2012 Volkswagen Pre-Certification Document and Meeting Request

Hello Jim:

VW FOIA, EPA

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1

Please let me know if this date is acceptable.

Best regards,		
Len		

Leonard W. Kata Manager, Emission Regulations and Certification Engineering and Environmental Office Volkswagen Group of America, Inc.

Phone: (248) 754-4204 Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: Snyder/A From: Sent:	Vincent Mazaitis/AA/USEPA/US@EPA;Jim Snyder/AA/USEPA/US@EPA[]; im A/USEPA/US@EPA[] "Hart, Robert (VWoA)" Mon 11/29/2010 12:39:07 PM
Subject:	Hybrid Prep/Test Procedure Requirements for the VW Touareg Hybrid
Hello Jim a	and Vince,
AND the e	nind the lab prep/test drivers that the Start-Stop has to be enabled during the preconditioning missions test. We understand that this was overlooked for the preconditioning of the previous pt (according to the driver).
the precor	d start-stop capability during preconditioning may influence the state of charge at the end of nditioning and the start of the UDDS test. This may result in an unexpected influence on the fuel or charge balance of the system.
The instru	ctions are posted on the vehicle.
To enable	the Start-Stop:
	nood lock must be engaged before the car is driven with the hood open on the dyno. The dummy" must be engaged into the hood latch prior to starting the vehicle.
2) The c	doors must be shut
3) The c	rivers seat belt lock must be engaged (either by the provided dummy or the actual seat-belt.)
Best regar	ds,
Bob Hart	
Robert Ha	rt
Engineerin	g and Environmental Office

Volkswagen Group of America, Inc.

3800 Hamlin Road

Auburn Hills, MI 48326

Phone: (248) 754-4224

Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: []
Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Mon 11/29/2010 4:47:15 PM Subject: Test data for in-use vehicle

N148RXXX-0162.pdf

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax



				W-3-1				レシリ
				Laboratory To				CVS
		Tool Manual		Laboratory Test I	Results	17_1.1.1.1.100	NIA ADDUV OZDO	
Toot Information	7971		2011-0035-002				N148RXX-0162	
Test Information		rest Date: Start / Hot Soak:	11/24/2010	1		MFR Name MFR Codes:		ADX
UNITED STATES.		start / Hot Soak: Jel Container ID:		,				AUX
(g) (Q) (g)	ri I		61 Tier 2 Cert T	oot Eust		Config #: Transmission:		
				ay Exhaust (CAN	I O A D Ven	Shift Schedule:		
(3)		culation Method:		ay Exhaust (CAN		Beginning Odometer:		
PROTES!		retest Remarks:	Obsomio			Drive Schedule:		
	•	retest iveniativs.				Soak Period:		
				2 - 2 - 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	W-W	Joak r Gilou.	20.7 110015	
Bag Data	******	HC-FID	CO	NOx	CO2	CH4	NonMeth HC	
Phase 1		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	€	17.814	78.070	2.122	0.866	3.839	** /	
Ambien	t	3.501	0.000	0.028	0.047	2.069		
Net Concentration	1	14.542	78.070	2.096	0.822	1.904	12.365	
	*							
	Remarks:							
Phase 2		0.04	0.000					
Sample		3.247	9.228	0.451	0.614	2.041		
Ambient	•	3.238	0.000	0.023	0.047	2.045	0.0**	
Net Concentration	1	0.157	9.228	0.429	0.569	0.090	0.054	
Phase 3	Remarks:							
<u>rnase 3</u> Sample		3.639	10.295	0.420	0.779	2.326		
Sample Ambient		3.398	0.000	0.420	0.779	2.326		
Net Concentration		0.440	10.295	0.400	0.046	0.414	-0.034	
	•	4		0.700	001	0.774	0.007	
	Remarks:							
Phase 4								
Sample								
Ambient							,	
Net Concentration	I							
	Remarks:	This test has par	ticulate results.					
<u>Results</u>		HC-FID	(<u>CO</u>	NO _X	<u>CO2</u>	CH4	NWHC	Vol MPG
	Dhan- 4	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	Phase 1 Phase 2	0.188	2.043	0.081	338.1	0.029	0.160	-26.007
		0.003	0.382	0.026	370.3	0.002	0.001	23.970
	Phase 3	0.006	0.268	0.015	300.5	0.006	0.000	29.548
					_,	_		
inal Economy	Weighted	0.04231	0.69512	0.03477	344.416	HATOTOTIC PORTER TO THE PROPERTY OF THE PROPER	0.03381	D200 EWO
uel Economy	Phase 1	Gasoline MPG 25.98				Dyno Settings		D329 - FWD
	Phase 2	23.95					Inertia:	
	Phase 3	29.52					EPA Set Co A:	
		20.02					EPA Set Co B: EPA Set Co C:	
	1 11000 0					±	FLEW ORL CO.C.	0.01030
	1 11000		•			-		
	Weighted	25.73	•	•	•	•	Emiss-Bench:	Mexa 7200sle

		•		Laboratory To				cvs
		Test Number: 2		_aboratory Test I	Results	Validate ID.	N4 4000V07 0400	
esults	·	HC-FID	CO CO	NOx	CO2	CH4	N148RXX-0162 NMHC	Meth Respons
SHITED STAFF		(grams)	(grams)	(grams)	(grams)	(grams)	(grams)	1.143
• 4880 • \	Phase 1	0.678	7.344	0.293	1215.6	0.103	0.576	1.140
	Phase 2	0.012	1.475	0.102	1429.2	0.008	0.004	
	Phase 3	0.020	0.965	0.056	1081.3	0.022	0.000	

PROTECT!								
st Conditions			Phase 1	Phase 2	Phase 3	Phase 4		
	Ba	rometer (inHg)	29.38	29.38	29.39			
	Avg Ce	II Temp (degF)	75.36	75.38	74.81			
	De	w Point (degF)	49.01	48.82	49.03			
Sp	ecific Humid	ity (grains/lbm)	52.56	52.18	52.56			
	N	Ox Corr Factor	0.9046	0.9031	0.9046			
		Dilution Factor	15.298	21.771	17.163			
		nix (scf @68F)	2801.32	4758.27	2790.87			
	Total V	mix (scf@68F)	2853.32	4846.75	2842.71			
	CVS Flow R	ate Avg (scfm)	329.76	328.16	330.61			
		an Placement: O		ront				
		se Time (secs)	509.70	870.00	506.50			
		istance (miles)	3.596	3.859	3.599			
	Bag Analys	is Time (secs)	879.5	1100.8	121.0			
				•				

11/24/2010 1:34 PM

EPAVDAEm101124075400

Page 2 of 5

Print Time 24-Nov-2010 13:34

v101007 - d329_

NVFEL Laboratory Test Data PARTICULATE Final Laboratory Test Results Test Number: 2011-0035-002 Vehicle ID: N148RXX-0162 Test Information Test Date: 11/24/2010 MFR Name AUDI JHITED STATES Key Start: 09:04:45 / 09:39 MFR Codes: 640 **ADX** Fuel Container ID: F00023 Config #: 00 Fuel Type: 61 Tier 2 Cert Test Fuel Transmission: MANUAL Test Procedure: 21 Fed Fuel 2-day Exhaust (CAN LOAD)(ftp Shift Schedule: A06400005 Calculation Method: Gasoline Beginning Odometer: 037488.0 MI Pretest Remarks: Drive Schedule: ftp3bag Soak Period: 20.7 hours All filter weights are corrected for buoyancy <u>Particulate</u> <u>Filter</u> Filter Tare Gross Net Wt Total Mass Total Mass <u>Filter</u> Sampler No. (Pre Wt) (Post Wt) mg mg mg/mi comment Phase 1 47600 139.4600 139,5461 0.08613 18.855 5.244 В 47610 146.2990 146.3793 0.08031 17.700 4.923 D 47611 145.75887 145.83807 0.07920 17,445 4.852 Remarks: Phase 2 47612 143.1921 143,2186 0.02651 5.802 1.503 В 47613 142.4165 142.4414 0.02490 5.457 1.414 D 47614 144.45863 144.48155 0.02292 5.041 1.306 Remarks: Phase 3 47615 141.9768 142.0126 0.03581 7.861 2.185 В 47616 141.9050 0.0000 0.00000 0.000 0.000 D 47617 143.08760 143.11732 0.02971 6.540 1.817 Remarks: Exclude C Phase 4 Remarks: This test has particulate results. Average Results Net Wt Total Mass **Total Mass** mg mg mg / mi Phase 1 0.08188 18.278 5.083 Phase 2 0.02478 5.629 1.459 Phase 3 0.02184 7.861 2.185

·		All filter weights are c	corrected for buoyancy.			
Weighted All Filters:		,				2.41000
Reference Filter Stability Che		<u>Tare</u>	Gross	<u>Net Wt</u>	Stability Check	Dyno #: D329 - FWD
2% of Avg Net or 0.01 mg	No.	(Pre Wt)	(Post Wt)	mg	PASS/FAIL	Inertia: 3625
0.01	1	144.97079	144.97420	0.00341	PASS	EPA Set Co A: 16.37
	2	142.32806	142.32773	-0.00033	PASS	EPA Set Co B: -0.1217
						EPA Set Co C: 0.01898
v101007 - d329 EPAVDAFm101124	1075100				***************************************	Emissions Bencl Mexa 7200sle
v101007 - d329EPAVDAEm101124	4075400		Page 3 of 5			Print Time 24-Nov-2010 13:34

E.S				L Laboratory Te			PARTICULA
(T)		Teet Mumber:	Final	Laboratory Test Re	esults		
		Test Number: 2 Buoyancy					: N148RXX-0162
<u> </u>	Timestamp	Factor	Operator (64)	Chamber Temp	Dew Point	<u>Barometer</u>	Last Change in Status
re-test	11/23/10 9:54	1.0011118	(id) 022298	(°F)	(°F)	("Hg)	Status @ timestamp
ost-test	11/24/10 12:38	1.0011118		71.3	48.4	29.00	NORM @ 11/23/10 04:29;28
	7772-9710 12.00	1.0011233	022298	71.4	48.7	29.31	NORM @ 11/23/10 04:29:28
st Cond	itions		Phase 1	Phase 2	Mb A		
······································		arometer (inHg)	29,38	29.38	Phase 3	Phase 4	
	Ava C	ell Temp (degF)	75.36		29.39		
		ew Point (degF)	49.01	75.38	74.81		
	Specific Humic	fity (grains/lbm)		48.82	49.03		
			52.56	52.18	52.56		
	17	Ox Corr Factor	0.9046	0.9031	0.9046		
	CEVIV	Dilution Factor	15.30	21.77	17.16		
	Crv V	mix (scf @68F)	2801.32	4758.27	2790.87		
	Comple Volum	e A (scf @68F)	13.035	22.148	12.948		
	Sample Volum	e B (scf @68F)	12.946	22.117	12.978		
	Sample Volum	e C (scr @68F)	13.068	22.172	13.001		
ο	Sample Volume	e u (sct @68F)	12.955	22.040	12.916		•
San	ple Volume Avera	age (scf @68F)	13.001	22.119	12.961		
		mix (scf @68F)	2853.32	4846.75	2842.71		
		ase Time (sec)	509.70	870.00	506.50		
	D	istance (miles)	3.596	3.859	3.599		
	PS11 P	Probe A (degC)			,		
		Probe B (degC)					
	Delle	robe C (degC)					
	POUR	Tobe C (degC)					
	FOU L	Oil Air A (degC)					
		il Air B (degC)					
	PSU D	il Air C (degC)					
	PSU	Filter A (degC)	43.4	43.0	42.3		
	PSU	Filter B (degC)	40.3	39.9	39.2		
	PSU I	Filter C (degC)	37.3	37.2	36.5		
	PSU D	Il Flow A (Ipm)					
	PSU D	il Flow B (lpm)					
	PSU D	I Flow C (Ipm)					
•	PSU A	Proportionality					
	P\$U B	Proportionality					
		Proportionality					
1007 - d329	EPAVDAEm10112	M075400		Page 4 of 5			

2017-FFP_001865

CVS

NVFEL Laboratory Test Data

Final Laboratory Test Results

Test Number: 2011-0035-003

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Test Date: 11/24/2010

MFR Name AUDI MFR Codes: 640

Vehicle ID: N148RXX-0162

ADX

Test Information

Key Start: 10:22:10

Fuel Container ID: F00023

Config #: 00

Transmission: MANUAL Shift Schedule: A06400006

Beginning Odometer: 037488.0 MI

Pretest Remarks:

Calculation Method: Gasoline

Drive Schedule: hwfet_hwfet

Baq Data Phase 1	HC-FID (ppmC)	CO (ppm)	<u>NOx</u> (ppm)	<u>CO2</u> (%)	<u>CH4</u> (ppm)	NonMeth HC (ppmC)	
Sample	3.676	9.416	Ö.17Ó	1.027	2.073	(pp://o/	
Ambient Net Concentration	3.634 0.320	0.000 9.416	0.022 0.150	0.049	2.057		
	0.020	3.410	0.100	0.981	0.175	0.121	

Remarks:

Phase 2

Sample Ambient

Net Concentration

Remarks:

Phase 3

Sample **Amblent**

Net Concentration

Remarks:

Phase 4

Sample

Ambient

Net Concentration

Remarks: This test has particulate results.

Results	HC-FID		110				
ICOUITO	***************************************	<u>UU</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	NMHC :	Vol MPG
Phase '	(gpm) 1 0.002	(gpm) 0.129	(gpm) 0.003	(gpm) 210.7	(gpm) 0.001	(gpm)	(mpg)
		010	0.000	2.10.7	0.001	0.001	42.149

Fuel Economy	Gasoline MPG			***	Own Callery	
					<u>Dyno Settings</u>	Dyno #: D329 - FWD
	Phase 1 42.11					Inertia: 3625
				•		EPA Set Co A: 16,37
						EPA Set Co B: -0,1217
					±	EPA Set Co C: 0.01898
	•	•	•	•	•	
u101007 d220 F	TRANSPORTE AND ADDRESS OF THE PROPERTY OF THE					Emiss-Bench: Mexa 7200sle

EPAVDAEm101124095516 Page 1 of 2 Print Time 24-Nov-2010 13:36

—	Final La	aboratory T boratory Test	est Data Results		1 11 11 11 11 11 11 11 11 11 11 11 11 1	cvs
Test Number: 20				Vehicle ID:	N148RXX-0162	
Results HC-FID (grams) Phase 1 0.022	<u>CO</u> (grams) 1.320	<u>NOx</u> (grams) 0.031	<u>CO2</u> (grams) 2160.9	<u>CH4</u> (grams) 0.014	NMHC (grams) 0.008	Meth Respons 1,143
Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF) Specific Humidity (grains/lbm) NOx Corr Factor CO2 Dilution Factor CFV Vmix (scf @68F) Total Vmix (scf@68F) CVS Flow Rate Avg (scfm)	Phase 1 29.39 74.76 49.02 52.55 0.9046 13.037 4173.11 4251.46 327.26	Phase 2	Phase 3	Phase 4		
Fan Placement: On Phase Time (secs) Distance (miles) Bag Analysis Time (secs)	e Fan - Up - Fro 765.10 10.254 105.2	nt				

11/24/2010 1:36 PM

v101007 - d329 __EPAVDAEm101124095516

20080609183200

Page 2 of 2

VTAURdxxx.xls

Print Time 24-Nov-2010 13:36

VW FOIA, EPA

NVFEL Laboratory Test Data

Final Laboratory Test Results

PARTICULATE



Test Date: 11/24/2010 Key Start: 10:22:10

Test Number: 2011-0035-003

Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 03 HWFET (hwfetprep_hwfet) Calculation Method: Gasoline

Vehicle ID: N148RXX-0162 MFR Name AUDI

MFR Codes: 640

Config #: 00

ADX

Transmission: MANUAL

Shift Schedule: A06400006

Beginning Odometer: 037488.0 MI

)11:	Pretest	Remarks:			_	Drive Schedul	e: hwfet_hwfet	
Particulat Phase 1	<u>Filter</u> Sampler	A B	Filter No. 47618 47619	<u>Tare</u> (Pre Wt) 143.1964 141.3449	<u>Gross</u> (Post Wt) 143.2414 141.3901	Net Wt mg 0.04496 0.04524	Total Mass mg 9.736 9.836	All filter weights at Total Mass mg / mi 0.949 0.959	e corrected for buo <u>Filter</u> commen
		D	47620	142.35569	142.40124	0.04555	9.924	0.968	
	Remarks:						•	•	
hase 2									
	Remarks:								
hase 3							•	•	
i	Remarks:								
ase 4							•	•	•
	lemarks;	This test	t has particu	ılate results.			•	•	•
erage Re	sults Phase 1					Net Wt mg 0.04525	Total Mass mg 9.786	Total Mass mg / mi 0.954	
			All fil	lter weights are co	prected for buoyancy.				·
erence Fi % of Avg N	Iter Stability (let or 0.01 mg 0.01	Check No 1 2	1	Tare (Pre Wt) 44.97079 42.32806	Gross (Post Wt) 144.97653 142.32906	Net Wt mg 0.00574 0.00100	Stability Check PASS/FAIL PASS PASS	Dyno #: Inertia: EPA Set Co A: EPA Set Co B: EPA Set Co C:	16.37 -0.1217

11/24/2010 1:36 PM

20080609183200

Page 1 of 2

VTAURdxxx.xls

2017-FFP_001868

Print Time 24-Nov-2010 13:36

Emissions Bencl Mexa 7200sle

VW FOIA, EPA

v101007 - d329

_EPAVDAEm101124095516

06/20/2017

(4			NVFEL	Laboratory Te	st Data	*	PARTICULA
le con	Water of the second sec	Test Number:	2011-0035-003	Laboratory Test Re	esults	36.33.7.35	
VEIGHING	CHAMBER	Buoyancy	Operator	Chamber Temp	Dew Point	Vehicle ID:	N148RXX-0162
Pre-test Post-test	Timestamp 11/23/10 9:54 11/24/10 13:15	Factor 1.0011118 1.0011237	(id) 022298 022298	(°F) 71.3 71.3	(°F) 48.4 49	<u>Barometer</u> ("Hg) 29.00 29.31	Last Change in Status Status @ timestamp NORM @ 11/23/10 04:29:28 NORM @ 11/23/10 04:29:28
est Cond	itions		Phase 1	Phase 2	Dh 0		
	Ba	rometer (inHg)	29.39	1 11d36 Z	Phase 3	Phase 4	
	Avg Ce	II Temp (degF)	74.76				
	De	w Point (degF)	49.02				
	Specific Humid	ity (grains/lbm)	52.55				
	N	Ox Corr Factor	0.9046				
		Dilution Factor	13.04				
	CFV Vr	nix (scf @68F)	4173.11				
	Sample Volume	A (scf @68F)	19.634				
	Sample Volume	B (scf @68F)	19.554				
	Sample Volume	C (scf @68F)	19.644				
Sam	Sample Volume ple Volume Avera	D (SCT @68F)	19.514				
Odin	BigAN allinion old	ge (scr@68F)	19.587				
	I Oldi VII	nix (scf @68F)	4251.46				
*	Di	ise Time (sec) stance (miles)	765.10 10.254				
	PSU PI PSU PI PSU DI PSU DI PSU FI PSU FI PSU DII PSU DII PSU DII PSU DII PSU B PI PSU B PSU B P	robe A (degC) robe B (degC) robe C (degC) I Air A (degC) I Air B (degC) I Air B (degC) I Air C (degC) Ilter B (lpm) Ilter B	43.5 40.5 37.8				
007 - d329_	EPAVDAEm101124	095516	Pa	ge 2 of 2		The second secon	

2017-FFP_001869

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

eonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Roberts

French/OU=AA/O=USEPA/C=US@EPA[]; N=Roberts French/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 11/29/2010 6:02:22 PM

Subject: VW Pre-Cert mtg and 2012 pre-model year GHG report

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

eonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: CN=David Good/OU=AA/O=USEPA/C=US@EPA;CN=Roberts

French/OU=AA/O=USEPA/C=US@EPA[]; N=Roberts French/OU=AA/O=USEPA/C=US@EPA[]

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 11/29/2010 6:02:22 PM

Subject: VW Pre-Cert mtg and 2012 pre-model year GHG report

To: Jim Snyder/AA/USEPA/US@EPA[]

Cc: "Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]

From: "Kata, Leonard"

Sent: Tue 11/30/2010 5:54:15 PM

Subject: Accepted: VW Pre-Cert mtg and 2012 pre-model year GHG report

To: Jim Snyder/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;Inc Wehrly/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; oel Ball/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; tephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; om Anderson/AA/USEPA/US@EPA[]

Cc: David Good/AA/USEPA/US@EPA;Roberts French/AA/USEPA/US@EPA;"Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; oberts French/AA/USEPA/US@EPA;"Kohnen, Christoph (VWGoA)" [christoph.kohnen@vw.com]; Kohnen, Christoph (VWGoA)"

[christoph.kohnen@vw.com] **From:** "Kata, Leonard"

Sent: Wed 12/1/2010 1:49:44 PM

Subject: RE: Invitation: VW Pre-Cert mtg and 2012 pre-model year GHG report (Dec 1 01:00

PM EST in AA-C126/AA-OTAQ-OFFICE@EPA)

2012 Cert Preview General.pdf

Hello All:

I am looking forward to our meeting this afternoon. I have attached a copy of a slide presentation version of the general portion of our certification preview letter submitted via VERIFY. I will also bring copies of these slides for distribution.

We will also be bringing a letter and presentation materials for the GHG 2012 Pre-Model Year Report and two presentations concerning strategies for Air Conditioning Credits.

As I have mentioned, my manager, Dr. Christoph Kohnen will be joining the meeting.

Best regards,

Len

<<2012 Cert Preview General.pdf>>

Leonard W. Kata

Manager, Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

-----Original Appointment-----From: Jim Snyder/AA/USEPA/US

Sent: Monday, November 29, 2010 1:02 PM

To: Jim Snyder/AA/USEPA/US; Nevers.Chris@epamail.epa.gov; Ball.Joel@epamail.epa.gov; Kata, Leonard; Wehrly.Linc@epamail.epa.gov; Healy.Stephen@epamail.epa.gov; Anderson.Tom@epamail.epa.gov

Cc: Good.David@epamail.epa.gov; French.Roberts@epamail.epa.gov

Subject: Invitation: VW Pre-Cert mtg and 2012 pre-model year GHG report (Dec 1 01:00 PM EST in AA-C126/AA-

OTAQ-OFFICE@EPA)

When: Wednesday, December 01, 2010 1:00 PM-3:00 PM (GMT-05:00) Eastern Time (US & Canada).

Where: C126 (lobby)

Invitation: VW Pre-Cert mtg and 2012 pre-model year GHG report

12/01/2010 -

Chair:

Jim Snyder/AA/USEPA/US

Sent By:

Snyder.Jim@epamail.epa.gov

Location: C126 (lobby)

Rooms:

AA-C126/AA-OTAQ-OFFICE@EPA AA-C127/AA-OTAQ-OFFICE@EPA

Snyder.Jim@epamail.epa.gov

Jim Snyder has invited you to a meeting. You have not yet responded.

Required:

Chris Nevers/AA/USEPA/US@EPA, Joel Ball/AA/USEPA/US@EPA, Leonard.Kata@vw.com, Linc Wehrly/AA/USEPA/US@EPA, Stephen Healy/AA/USEPA/US@EPA, Tom Anderson/AA/USEPA/US@EPA

Optional:

David Good/AA/USEPA/US@EPA, Roberts French/AA/USEPA/US@EPA

Description

<< File: ATT372448.htm >> << File: c130220.ics >> << File: ecblank.gif >> << File: pic07536.gif >> <

To: "Kata, Leonard" [Leonard.Kata@vw.com]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Wed 12/1/2010 3:00:18 PM

Subject: RE: Invitation: VW Pre-Cert mtg and 2012 pre-model year GHG report (Dec 1 01:00

PM EST in AA-C126/AA-OTAQ-OFFICE@EPA)

Hi Len, got your voice mail and handout. Everything is fine at our end, looking forward to the meeting.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]
Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA[]
From: CN=Vincent Mazaitis/OU=AA/O=USEPA/C=US

Sent: Fri 12/3/2010 11:47:58 AM **Subject:** VW526710023 11-30-10

VW526710023 11-30-10.pdf

Good morning Bob,

Please find enclosed the Laboratory Test Data for the Subject vehicle. If you have any questions or concerns, please contact Jim Snyder or me.

Thanks for your patience Bob,

Vince Mazaitis



				L Laboratory [*]				cvs
				ults- Refer to VE	RIFY Reports			
Pariting and all a	_		2010-0330-00	8			VW526710023	
Test Information			11/30/2010	20			VOLKSWAGE	
THITED STATES		Start / Hot Soak:		39		MFR Codes:		VWX
	, F	uel Container ID:				Config #:	• •	
	§)	,,	61 Tier 2 Cert			Transmission:	AUTO	
B 7M 3	/			l 2-day Exhaust (0	CAN LOAD)	Shift Schedule:	A09980005	
Mrs. coll	' Cal	culation Method:	Gasoline		В	leginning Odometer:	004303.0 MI	
Car prove	F	Pretest Remarks:				Drive Schedule:	ftp4bag	
						Soak Period:		
				, , , , , , , , , , , , , , , , , , ,		/		· · · · · · · · · · · · · · · · · · ·
Bag Data		HC-FID	<u>CO</u>	<u>NOx</u>	CO2	CH4	NonMeth HC	
<u>Phase 1</u>		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sampl	le	10.182	30.307	2.367	1.240	2,510		
Ambier	nt	2.703	0.955	0.014	0.044	1.931		
Net Concentratio	ก	7.730	29.440	2.355	1.200	0.759	6.911	
				-1.2.2.		V., VV	0.017	
								•
	Remarks:							
Phase 2								
Sampl	е	3.350	0.690	0.191	0.573	1,849		
Ambier		2.542	0.000	0.008	0.043	1.918		
Net Concentratio		0.917	0.690	0.008			0.000	
TOE CONSCINEAGO	••	0.517	0.090	0.103	0.531	0.014	0.902	
	Daniadeae							
\h 2	Remarks:							
<u>hase 3</u>								
Sampl		3.306	6.238	0.497	0.865	1.924		
Ambier		2.451	0.000	0.010	0.043	1.912		
Net Concentration	n	1.013	6.238	0.488	0.825	0.136	0.866	
N	Remarks:							
Phase 4								
Sample		2.867	0.605	0.334	0.488	1.871		
Ambien		2.733	0.000	0.010	0.043	1.920		
Vet Concentration	n	0.234	0.605	0.325	0.447	0.021	0.211	
	Remarks:	This test has par	ticulate results.					
tesults		HC-FID	CO	NOx	CO2	CH4	NMHC / NMOG	Vol MPG
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	Phase 1	0.098	0.757	0.091	485.1	0.011	0.088 / 0.092	18.272
		0.019	0.028	0.011	343.4			
	Phase 2		W.UZII		J4J.4	0.000	0.018 / 0.019	25.880
	Phase 2					0.000	0.04470040	M~ ~~~
	Phase 3	0.013	0.161	0.019	334.8	0.002	0.011 / 0.012	26.535
						0.000	0.004 / 0.004	30.809
	Phase 3 Phase 4	0.013 0.005	0.161 0.025	0.019 0.020	334.8 288.5	0.000	0.004 / 0.004 (NMOG=1.04xNMHC)	30.809
	Phase 3	0.013 0.005 0.02957	0.161	0.019	334.8	0.000	0.004 / 0.004 (NMOG=1.04xNMHC 0.0267 / 0.0278	30.809
uel Economy	Phase 3 Phase 4 Weighted	0.013 0.005 0.02957 Gasoline MPG	0.161 0.025	0.019 0.020	334.8 288.5	0.000	0.004 / 0.004 (NMOG=1.04xNMHC) 0.0267 / 0.0278 Dyno #:	30.809) D329 - AWD
uel Economy	Phase 3 Phase 4 Weighted	0.013 0.005 0.02957 Gasoline MPG 18.25	0.161 0.025	0.019 0.020	334.8 288.5	0.000	0.004 / 0.004 (NMOG=1.04xNMHC 0.0267 / 0.0278	30.809) D329 - AWD
uel Economy	Phase 3 Phase 4 Weighted Phase 1 Phase 2	0.013 0.005 0.02957 Gasoline MPG 18.25 25.85	0.161 0.025	0.019 0.020	334.8 288.5	0.000	0.004 / 0.004 (NMOG=1.04xNMHC) 0.0267 / 0.0278 Dyno #:	30.809) D329 - AWD 5500
uel Economy	Phase 3 Phase 4 Weighted	0.013 0.005 0.02957 Gasoline MPG 18.25	0.161 0.025	0.019 0.020	334.8 288.5	0.000	0.004 / 0.004 (NMOG=1.04xNMHC) 0.0267 / 0.0278 Dyno #: Inertia:	30.809) D329 - AWD 5500 -5.22
uel Economy	Phase 3 Phase 4 Weighted Phase 1 Phase 2	0.013 0.005 0.02957 Gasoline MPG 18.25 25.85 26.51	0.161 0.025	0.019 0.020	334.8 288.5	0.000 0.00309 Dyno Settings	0.004 / 0.004 (NMOG=1.04xNMHC 0.0267 / 0.0278 Dyno #: Inertia: EPA Set Co A: EPA Set Co B:	30.809 D329 - AWD 5500 -5.22 -0.1555
uel Economy	Phase 3 Phase 4 Weighted Phase 1 Phase 2 Phase 3	0.013 0.005 0.02957 Gasoline MPG 18.25 25.85 26.51	0.161 0.025 0.21518	0.019 0.020 0.03237	334.8 288.5 354.278	0.000 0.00309 Dyno Settings ts Charge State	0.004 / 0.004 (NMOG=1.04xNMHC 0.0267 / 0.0278 Dyno #: Inertia: EPA Set Co A:	30.809 D329 - AWD 5500 -5.22 -0.1555
uel Economy	Phase 3 Phase 4 Weighted Phase 1 Phase 2 Phase 3	0.013 0.005 0.02957 Gasoline MPG 18.25 25.85 26.51	0.161 0.025 0.21518 1% SOC Limit	0.019 0.020 0.03237 Act SOC A-hr	334.8 288.5 354.278 Sys Nom Vol	0.000 0.00309 Dyno Settings	0.004 / 0.004 (NMOG=1.04xNMHC 0.0267 / 0.0278 Dyno #: Inertia: EPA Set Co A: EPA Set Co B:	30.809 D329 - AWD 5500 -5.22 -0.1555 0.02786

1.50 - 3 - 3

		***************************************		NVFEL	Laboratory Te	st Data		PA	RTICULATE
					Its- Refer to VERI	FY Reports f			
-		Te		2010-0330-008				VW526710023	
Test Inform				11/30/2010	_			VOLKSWAGEN	
UNITED ST	17EG			13:48:11 / 09:39	€		MFR Codes:		VWX
6 10	18	Fuel C	ontainer ID:				Config #:		
	カ剤			61 Tier 2 Cert T			Transmission:		
12 77	23/				2-day Exhaust (CA		Shift Schedule:		
The same of the sa			ion Method:	Gasoline		Ве	ginning Odometer:		
THE PROV		Pretes	st Remarks:				Drive Schedule:		
				· · · · · · · · · · · · · · · · · · ·	······································		Soak Period:		
									corrected for buoyancy
<u>Particulate</u>	<u>Filter</u>		<u>Filter</u>	<u>Tare</u>	<u>Gross</u>	Net Wt	Total Mass	Total Mass	<u>Filter</u>
	Sampler		No.	(Pre Wt)	(Post Wt)	mg	mg	mg / ml	comment
Phase 1		Α	7067560		141.0337	0.03697	23.162	6.461	
		В	7067561	140.3475	140.3871	0.03957	24.804	6.919	
		С	7067562	142.2697	142.3113	0.04158	26.163	7.298	
						•			
	Remarks:						•	•	•
L									
Phase 2		A	7067563		141.6521	0.02826	17.656	4.597	
		В	7067564		141.7878	0.03117	19.467	5.069	
		С	7067565	145.6394	145.6702	0.03078	19.242	5.010	
									•
	Remarks:						*		•
Phase 3		Α	7067566	142.8943	142.9275	0.03317	20.766	5.788	
		В	7067567	147.2771	147.3015	0.02437	15.294	4.263	
		С	7067568	149.0163	149.0414	0.02508	15.683	4.371	
!	Remarks:						•	•	•
Phase 4		A	7067569	149.6534	149.6858	0.03239	20.214	5.260	
		В	7067570	146.9659	146.9992	0.03328	20.814	5.416	
		С	7067571	142.9747	142.9995	0.02476	15.600	4.060	
1	Remarks:	This	test has par	ticulate results.					
,			······································						
Average Re	sults			·		Net Wt	Total Mass	Total Mass	
						mg	mg	mg/mi	
	Phas	e 1				0.03937	24.710	6.893	
	Phas					0.03007	18.789	4.892	
	Phas					0.02754	17.248	4.807	
	Phas	_	_			0.03014	18.876	4.912	
	: ::00	- •	•				. 3.0, 0		
				All filter weights are	corrected for buoyancy.				
				-	. ,				
AND DESCRIPTION OF THE PERSON	Weighted All	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P					is one annotamine in a singular militaria militaria ministra di mandia di mandia di mandia di mandia di mandia	5.28987	
***************************************	Filter Stabili			<u>Tare</u>	Gross	<u>Net Wt</u>	Stability Check		D329 - AWD
2% of Avg	Net or 0.01	mg	No.	(Pre Wt)	(Post Wt)	mg	PASS/FAIL	Inertia:	
	0	.01	1	145.74284	145.74809	0.00525	PASS	EPA Set Co A	
			2	146.49367	146.49852	0.00485	PASS	EPA Set Co B	
								EPA Set Co C	: 0.02786
	·		·····			**************************************	gygggggagatan ken tanan ferren kon ken mementi dalah manamen di kisan sakibi dalah	Emissions Bend	~~~~
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6.5			NVFE	Laboratory Te	st Data		PARTICULA
1 7	2)	Final Laborat Test Number: 2	ory Test Resi	ults- Refer to VERI	Y Reports for		
VEIGHING	CHAMBER	Buoyancy					VW526710023
	Timestamp	Factor	<u>Operator</u>	Chamber Temp	Dew Point	<u>Barometer</u>	Last Change in Status
re-test	11/30/10 10:20	1.0011021	(id)	(°F)	(°F)	(*Hg)	Status @ timestamp
ost-test	12/1/10 10:43	1.0011044	021798	71.2	48.4	28.74	NORM @ 11/30/10 08:32:31
	12/1/10 10,40	1.0011044	022298	71.5	49.2	28.82	NORM @ 11/30/10 20:30:17
st Condi	tions ·		Phase 1	Phase 2	Ohoo - O		
	 Ba	arometer (inHg)	28.68	28.68	Phase 3	Phase 4	
	Ava Ce	ell Temp (degF)	74.47	75.02	28.69	28.69	
	De	w Point (degF)	49.06		75.13	74.66	•
	Specific Humid	lity (grains/lbm)	53.94	49.10	49.17	49.14	
		Ox Corr Factor		54.02	54.16	54.07	
	37	Dilution Factor	0.9099	0.9102	0.9108	0.9104	
	CEMA	mix (scf @68F)	10.77	23.37	15.47	27.43	
	Sample Volum	IIIX (SUI (WOOF)	2783.34	4769.22	2797.15	4768.51	
	Sample Volum	= A (SCI @68F)	4.464	7.671	4.490	7.677	
	Sample Volume	B (SCI @68F)	4.462	7.672	4.479	7.662	
	Sample Volume	C (SCT @68F)	4.445	7.665	4.494	7.606	
Cam	Sample Volume	D (sct @68F)					
Sam	ple Volume Avera	ige (scf @68F)	4.457	7.669	4.488	7.648	
	lotal Vr	nix (scf @68F)	2796.71	4792.23	2810.61	4791.455301	
		ase Time (sec)	506.90	869.60	509.70	869.59	
	D	istance (miles)	3.585	3.841	3.588	3.843	
	PSU P	robe A (degC)					
	PSUP	robe B (degC)	,				
	PSUP	robe C (degC)					
	PSUD	il Air A (degC)	44.4	44.4			
	PSUD	il Air B (degC)	41.4	41.1	41.3	41.3	
	Della	il Air C (degC)	43.7	43.3	43.3	43.3	
	radu	Filter A (degC)	40.2	40.0	40.1	40.1	
	POUL	Tilter A (degC)	45.5	47.5	45.6	45.5	
	rou i	ilter B (degC)	47.0	46.1	45.6	47.4	
	P0015	ilter C (degC)	44.2	44.0	44.3	44.9	
	PSU DI	Flow A (Ipm)	29.9	30.0	29.9	30.0	
	PSU Di	l Flow B (lpm)	29.9	30.0	29.9	30.0	
	PSU DI	Flow C (lpm)	30.0	30.0	29.9	30.0	
•		roportionality				· -	
		Proportionality					
	PSU C F	Proportionality					
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06/20/2017

		NVFEL	. Laboratory T	est Data			CVS
	Final Laborat	tory Test Resu	its- Refer to VER	IFY Reports for			
Results	Test Number: 2 HC-FID		110			D: VW526710023	
460 8E		CO (grama)	NOx	CO2	<u>CH4</u>	NMHC	Meth Respon
Phase	(grams) e 1 0,353	(grams)	(grams)	(grams)	(grams)	(grams)	1.079
Phase Phase		2.715	0.325	1739.0	0.040	0.316	
Phase		0.109	0.043	1319.1	0.001	0.071	
Phase		0.578	0.068	1201.1	0.007	0.040	
AL PROTECTION	0.018	0.096	0.077	1108.7	0.002	0.017	
est Conditions		Phase 1	Phase 2	Phase 3	mb /		
***************************************	Barometer (inHg)	28.68	28.68		Phase 4		
Ave	g Cell Temp (degF)	74.47	75.02	28.69	28.69		
	Dew Point (degF)	49.06	49.10	75.13	74.66		
Specific Hr	midity (grains/lbm)	53.94		49.17	49.14		
Spoomb Ht	NOx Corr Factor	0.9099	54.02	54.16	54.07		
(CO2 Dilution Factor		0.9102	0.9108	0.9104		
Ç.E.	V Vmix (scf @68F)	10.770	23.374	15.471	27.43		
		2783.34	4769.22	2797.15	4768,51		
	al Vmix (scf@68F)	2796.71	4792.23	2810.61	4791.46		
CVS Flo	w Rate Avg (scfm)	329.45	327.18	329.27	329.01		
	Fan Placement: O	ne Fan - Down	- Front				
í	Phase Time (secs)	506.90	869.60	509.70	869.59		
	Distance (miles)	3.585	3.841	3.588	3.843		
Bag An	alysis Time (secs)	954.0	148.8	961.3	***************************************		
•							
R Test Results	for Procedure 21 Fo	ederal fuel 2-da	ıy exhaust (w/can	load)			
MFR Number		<u>co</u>	<u>NOx</u>	<u>CO2</u>	NMOG	NonMeth HC	
1E+07	0.0232	0.471	0.0183	326	0	0.0211	
Odometer 3993 M	MPG 27.2			MFR Lab: \	/olkswagen AG	, Dept EASZ/1	
J993 W	27.2 MPG is 8.54 % high			Dyno: 21			
	IVIPU IS 0.54 % NION	ier inan FPA M	PG	Dune. 0	14		

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VW FOIA, EPA

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Fri 12/3/2010 7:36:50 PM **Subject:** I got an updated schedule...

Hi, Sebastian.

We are done with the N148 vehicles. If we do decide to bring more in it won't be until February.

The next confirmatory vehicle is not scheduled to come in until the week of January 10.

I will send an e-mail to you the week before we plan to bring the vehicle in and let you know the VIN and maintenance date.

Enjoy your trip!

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax) To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Berenz, Sebastian"

Sent: Fri 12/3/2010 9:02:04 PM

Subject: RE: I got an updated schedule...

Hello Lynn,

Thank you very much for that update.

It helps to plan.

Have a nice weekend.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

----Original Message-----

 $From: Sohacki. Lynn@epamail.epa.gov\ [mail to: Sohacki. Lynn@epamail.epa.gov]\\$

Sent: Friday, December 03, 2010 2:37 PM

To: Berenz, Sebastian

Subject: I got an updated schedule...

Hi, Sebastian.

We are done with the N148 vehicles. If we do decide to bring more in it won't be until February.

The next confirmatory vehicle is not scheduled to come in until the week

of January 10.

I will send an e-mail to you the week before we plan to bring the vehicle in and let you know the VIN and maintenance date.

Enjoy your trip!

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Mon 12/6/2010 4:08:04 PM

Subject: Test data for in-use vehicle N149-0059

N149RXX-0059.pdf

Hi, Sebastian.

The data for the above vehicle is attached. Please give me a call if you have any questions.

Lynn Sohacki Environmental Protection Agency (734)214-4851 (734)214-4869 fax



							_\\\\
			aboratory.				CVS
			boratory Tes	t Results			
		2011-0045-002				N149RXX-0059	
Test Information	Test Date:				MFR Name		
UNITED STATES	Key Start / Hot Soak:	09:56:52 / 09:46	-		MFR Codes:	640	ADX
	Fuel Container ID:	F00023			Config #:	00	
DELIVING TO THE PARTY OF THE PA		61 Tier 2 Cert Tes			Transmission:		
	Test Procedure:	21 Fed Fuel 2-day	Exhaust (CA	N LOAD)(ftp	Shift Schedule:	A09980005	
10	Calculation Method:	Gasoline			Beginning Odometer:	051113.0 MI	
PHOTE	Pretest Remarks:				Drive Schedule:	ftp3bag	
				·	Soak Period:	21.1 hours	
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		-				
Bag Data	HC-FID	CO	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	NonMeth HC	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	14.404	41.970	1.692	0.871	3.233		
Ambient	3.473	0.000	0.006	0.049			
Net Concentration	11.158	41.970	1.686	0.825	1.303	9.725	
į į	Remarks:						
Phase 2							
Sample	3.507	5.777	0.214	0.549			
Ambient	3.351	0.004	0.010	0.048			
Net Concentration	0.294	5.772	0.204	0.503	0.063	0.225	
1	Remarks:						
Phase 3							
Sample	3.602	8.700	0.235	0.747			
Ambient	3.252	0.044	0.013	0.048		0.400	
Net Concentration	0.532	8.658	0.223	0.701	0.318	0.182	
a ·	Remarks:						
Phase 4							
Sample	*						
Ambient							
Net Concentration							
§							

-				-8			
11	e	n	я	n	E	ς.	•

Results	Phase 1 Phase 2 Phase 3	HC-FID (gpm) 0.164 0.007 0.008	<u>CO</u> (gpm) 1.247 0.274 0.257	NOx (gpm) 0.073 0.014 0.010	CO2 (gpm) 385.3 375.4 327.0	CH4 (gpm) 0.022 0.002 0.005	NMHC (gpm) 0.143 0.005 0.003	Vol MPG (mpg) 22.926 23.658 27.152
	Weighted	0.03981	0.47146	0.02518	364.148	0.00697	0.03318	
Fuel Economy		Gasoline MPG			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Dyno Settings	Dyno #:	1
MARKET AND DESCRIPTION OF THE PARTY OF THE P	Phase 1	22.90					Inertia:	
	Phase 2	23.64					EPA Set Co A:	
	Phase 3	27.12					EPA Set Co B:	
	, ,,,,,,,,,					±	EPA Set Co C:	0.01586
	Weighted	24.34					Emiss-Bench:	MANUSCRIPTION OF REPAREMENTS AND ADDRESS OF THE PROPERTY OF TH
v101007 - d002	EPAVDAEm1012	202093747		Page 1 of 2			Print Tirr	ne 02-Dec-2010 10:45

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				Laboratory To				cvs
		Tark blanch and O	Final L	aboratory Test I	Results	3.7.5.7.4.400	*********	
		Test Number: 2 HC-FID		NO	~~~		N149RXX-0059	
Sults		(grams)	<u>CO</u> (grams)	<u>NOx</u> (grams)	CO2	CH4	NMHC	Meth Respon
(1)40, (E.)	\ Phase 1	0.593	4.501	0.264	(grams) 1390.5	(grams) 0.080	(grams) 0.517	1.1
	Phase 2	0.027	1.061	0.055	1452.5	0.007	0.020	
	Phase 3	0.028	0.926	0.035	1178.0	0.007	0.010	
PROTECTO		·		-				
st Conditions			Phase 1	Phase 2	Phase 3	Phase 4		
	Ba	rometer (inHg)	29.13	29.13	29.13			
		II Temp (degF)	75.06	75.10	75.15			
		w Point (degF)	46.65	46.88	46.59			
5		ity (grains/lbm)	48.45	48.87	48.33			
		Ox Corr Factor	0.8891	0.8906	0.8886			
		Dilution Factor	15.292	24.367	17.913			
	CFV Vr	nix (scf @68F)	3253.10	5576.86	3242.68			
	CVS Flow R	ate Avg (scfm)	385.13	384.08	384.05			
		an Placement: O	ne Fan - Up - F	ront				
	Pha	se Time (secs)	506.80	871.20	506.60			
		istance (miles)	3.608	3.870	3.602			
	Bag Analys	sis Time (secs)	75.0	75.6	74.1			
				•				
				•				
			,					
					4			

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NVFEL Laboratory Test Data

Final Laboratory Test Results

Test Number: 2011-0045-003

Vehicle ID: N149RXX-0059

Calculation Method: Gasoline

Pretest Remarks:

MFR Name AUDI MFR Codes: 640 Config #: 00

ADX



Test Date: 12/2/2010 Key Start: 11:11:29

Fuel Container ID: F00023 Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Transmission: AUTO

Shift Schedule: A09980011

Beginning Odometer: 051124.0 MI Drive Schedule: hwfet_hwfet

		-	-				
Bag Data	<u>HC-FID</u>	<u>CO</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	NonMeth HC	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	3.634	14.240	0.351	1.000	2.084		
Ambient	3.212	0.003	0.019	0.048	2.038		
Net Concentration	0.662	14.237	0.333	0.955	0.199	0.444	

Remarks:

Phase 2

Sample Ambient

Net Concentration

Remarks:

Phase 3

Sample **Ambient**

Net Concentration

Remarks:

Phase 4

Sample **Ambient**

Net Concentration

Remarks:

Results	HC-FID	<u>co</u>	NOx	<u>CO2</u>	<u>CH4</u>	NMHC	Vol MPG
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
Pha	se 1 0.005	0.221	0.008	233.4	0.002	0.003	38.040

ě	Fuel Economy	Gasoline IVIFG				Dyno Settings	Dyno #:	DUUZ
STATE OF THE PERSON	Phase	38.00					Inertia:	3875
Application					*		EPA Set Co A:	9.18
2000000							EPA Set Co B:	0.27
Santra Santra				•		*	EPA Set Co C:	0.01586
00000					•	*		
2000000			*				Emiss-Bench:	D002

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NVF	EL	Labor	ratory	Test	Data
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Final Laboratory Test Results

Test Number: 2011-0045-003

Vehicle ID: N149RXX-0059

Results

SHATED STATES

SOUTH THE PROTECTION

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THE PROTECTION

THE PROTECTION

HC-FID (grams) Phase 1 0.052

<u>CO</u> (grams) 2.270

Phase 1

29.10

75.11

<u>NOx</u> (grams) 0.078

Phase 2

<u>CO2</u> (grams) 2394.1

Phase 3

<u>CH4</u> (grams) 0.018

Phase 4

NMHC (grams) 0.035 Meth Response 1.1

CVS

Test Conditions

Barometer (inHg) Avg Cell Temp (degF)

Dew Point (degF) 46.61
Specific Humidity (grains/lbm) 48.42

NOx Corr Factor 0.8889 CO2 Dilution Factor 13.376 CFV Vmix (scf @68F) 4837.02

CVS Flow Rate Avg (scfm)

379.37

Fan Placement: One Fan - Up - Front

Phase Time (secs)
Distance (miles)

765.00 10.259

Bag Analysis Time (secs)

74.0

12/2/2010 11:31 AM

EPAVDAEm101202104744

20080609183200

Page 2 of 2

2017-FFP_001889

Print Time 02-Dec-2010 11:31

VW FOIA, EPA

v101007 - d002

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: CN=Vincent Mazaitis/OU=AA/O=USEPA/C=US@EPA[]

Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 12/6/2010 4:28:01 PM

Subject: VW hybrid FTP

Bob, I received your voice mail regarding VW accepting the ftp FE numbers. I canceled the re-test. But I haven't seen an official email from you, have you sent it?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

To: From: Sent:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Mon 12/6/2010 4:34:08 PM
Subject:	Touareg Hybrid Confirmatory Test Results Accepted
Hello Jim,	
Volkswage cfg. 0).	n accepts the results of the confirmatory test for the VW Touareg Hybrid (ID: VW526 710023 –
Please can	cel the retest and release the vehicle for pick-up tomorrow (Tuesday 7-Dec-10).
The first at	tempt to send this went to the wrong address.
Best regard	ds,
Bob Hart	
Dahambilan	
Robert Har	τ
Engineerin	g and Environmental Office
	6 - 1.0 - 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
Volkswage	n Group of America, Inc.
3800 Haml	in Road
Auburn Hil	Is, MI 48326
Phone: (24	8) 754-4224
Fax: (248)	754-4207
E-mail: rob	ert.hart@vw.com

To: Leonard.Kata@vw.com[]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Mon 12/6/2010 8:41:45 PM

Subject: ADP

Len, I talked to Arvon about ADP and VW uses the SRC process which doesn't require approval. So all I need is a letter saying you are using EPA's SRC and we are all set on this.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

To: richard.thomas@vw.com[]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 12/9/2010 4:01:47 PM

Subject: Fees URL

Hi, Richard.

Here it is:

http://www.epa.gov/otaq/guidance.htm

Please let me know if you have any trouble locating the forms.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax) To: Jim Snyder/AA/USEPA/US@EPA[]

From: Ex. 7

Sent: Fri 12/10/2010 12:56:53 PM Subject: Confernece Call - Audi

Hello Jim:

I am asking about scheduling a conference call with you and EPA staff to Discuss start-stop devices with Audi. Ex. 7 from Audi would join.

Wednesday, December 15, 2010 10:30 a.m. Detroit time. 30-45 minutes.

Please let me know what you think.

Regards,



Volkswagen Group of America, Inc.



sebastian.berenz@vw.com Hello Lynn, I hope everything is fine in Michigan. I'm still in Germany and heard of the blizzard. Can you please give me an update on EPAs decision on our 3.1l confirmatory program? It would be kind, if you can send me the last two test results of the Audi A6es. Thank you very much. Best regards. Sebastian Sebastian Berenz Manager In-Use Emission Compliance **Environmental Engineering Office** Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 **United States of America**

Lynn Sohacki/AA/USEPA/US@EPA[]

"Berenz, Sebastian"

Subject: Confirmatory Program 3.11 Audi

Tue 12/14/2010 9:27:28 AM

To:

From:

Sent:

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Kata, Leonard" Tue 12/14/2010 6:27:03 PM FW: Confernece Call - Audi
Hi Jim:	
the office of	your message that the proposed time for tomorrow is not good. Unfortunately, Lothar is not in on Thursday or Friday, so my suggestion is to postpone until early next week. Would you time, preferably no later than 11:00 a.m. on Monday (12/20) or Tuesday (12/21) that would ou?
I will try to	get some materials to you prior to the call. To be more specific about the topics:
1. Gene	eral discussion concerning start-stop devices.
2. Shift	speeds for manual transmission vehicles with start-stop devices.
Thanks,	
Len	
To: 'Snyde	a, Leonard y, December 10, 2010 7:57 AM r.Jim@epamail.epa.gov' onfernece Call - Audi
Hello Jim:	
	g about scheduling a conference call with you and EPA staff to Discuss start-stop devices with ar Rech from Audi would join.
Wednesda	y, December 15, 2010 10:30 a.m. Detroit time. 30-45 minutes.

Please let me know what you think.
Regards,
G ,
Len

Leonard W. Kata

Manager, Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: "Kata, Leonard" [Leonard.Kata@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 12/14/2010 6:35:04 PM Subject: Re: FW: Confernece Call - Audi

Next Tuesday is mtg from 9 to 10 again so I guess monday morning. How about 10:00?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Kata, Leonard" < Leonard. Kata@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 12/14/2010 01:27 PM Subject: FW: Confernece Call - Audi

Hi Jim:

I received your message that the proposed time for tomorrow is not good. Unfortunately, Lothar is not in the office on Thursday or Friday, so my suggestion is to postpone until early next week. Would you propose a time, preferably no later than 11:00 a.m. on Monday (12/20) or Tuesday (12/21) that would work for you?

I will try to get some materials to you prior to the call. To be more specific about the topics:

- 1. General discussion concerning start-stop devices.
- 2. Shift speeds for manual transmission vehicles with start-stop devices.

Thanks,

Len

From: Kata, Leonard

Sent: Friday, December 10, 2010 7:57 AM

To: 'Snyder.Jim@epamail.epa.gov' Subject: Confernece Call - Audi

Hello Jim:

I am asking about scheduling a conference call with you and EPA staff to Discuss start-stop devices with Audi. Lothar Rech from Audi would join.

Wednesday, December 15, 2010 10:30 a.m. Detroit time. 30-45 minutes.

Please let me know what you think.

Regards,

Len

Leonard W. Kata Manager, Emission Regulations and Certification Engineering and Environmental Office Volkswagen Group of America, Inc.

Phone: (248) 754-4204 Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: Jim Snyder/AA/USEPA/US@EPA[]

From: Ex. 7

Sent: Tue 12/14/2010 6:44:54 PM Subject: RE: FW: Confernece Call - Audi

Hi Jim:

Tuesday at 10:00 sounds good to me. Lets pencil that in. I will let Ex. 7 know and see what he says.

Best regards,



Volkswagen Group of America, Inc.



From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Tuesday, December 14, 2010 1:35 PM

To: Ex. 7

Subject: Re: FW: Confernece Call - Audi

Next Tuesday is mtg from 9 to 10 again so I guess monday morning. How about 10:00?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From:	Ex. 7
То:	Jim Snyder/AA/USEPA/US@EPA
Date:	12/14/2010 01:27 PM
Subject:	FW: Confernece Call - Audi

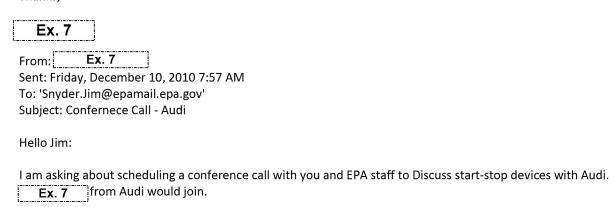
Hi Jim:

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Thanks,



Wednesday, December 15, 2010 10:30 a.m. Detroit time. 30-45 minutes.

Please let me know what you think.

Regards,

Ex. 7

Volkswagen Group of America, Inc.

Ex. 7

Jim Snyder/AA/USEPA/US@EPA[]
Ex. 7
Tue 12/14/2010 6:45:15 PM

From:

Sent:

Subject: Recall: FW: Confernece Call - Audi

Ex. 7 would like to recall the message, "FW: Confernece Call - Audi".

From: "Kata, Leonard" Tue 12/14/2010 6:47:14 PM Sent: Subject: RE: FW: Confernece Call - Audi Hi Jim: I just wrote back and tried to recall the message. I read your message too fast. Next Monday at 10:00 sounds good. I will let Lothar know. Best regards, Len Leonard W. Kata Manager, Emission Regulations and Certification **Engineering and Environmental Office** Volkswagen Group of America, Inc. Phone: (248) 754-4204 Cell: (248) 797-3886

Jim Snyder/AA/USEPA/US@EPA[]

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Tuesday, December 14, 2010 1:35 PM

To: Kata, Leonard

To:

Subject: Re: FW: Confernece Call - Audi

E-Mail: leonard.kata@vw.com

Next Tuesday is mtg from 9 to 10 again so I guess monday morning. How about 10:00?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From:

"Kata, Leonard" < Leonard. Kata@vw.com>

To:

Jim Snyder/AA/USEPA/US@EPA

Date:

12/14/2010 01:27 PM

Subject:

FW: Confernece Call - Audi

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Thanks,

Len

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Sent: Friday, December 10, 2010 7:57 AM

To: 'Snyder.Jim@epamail.epa.gov' Subject: Confernece Call - Audi

Hello Jim:

I am asking about scheduling a conference call with you and EPA staff to Discuss start-stop devices with Audi. Lothar Rech from Audi would join.

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Please let me know what you think.

Regards,

Len

Leonard W. Kata Manager, Emission Regulations and Certification

Engineering and Environmental Office Volkswagen Group of America, Inc.

Phone: (248) 754-4204 Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: [] Bcc: []

From: CN=Lynn Sohacki/OU=AA/O=USEPA/C=US

Sent: Tue 12/14/2010 7:05:44 PM

Subject: Re: Confirmatory Program 3.1l Audi

N002RXX-0133C hwy.pdf N001RXX-0136C ftp.pdf N001RXX-0136C hwy.pdf N002RXX-0133C ftp.pdf sebastian.berenz@vw.com

Hi, Sebastian.

We have decided to suspend testing for now on this class but we do have some questions that we will be sending to you. Unfortunately, it is very busy right now so I'm not sure when we will be getting the questions to you.

Here is the data you requested.

I hope it's warmer there than it is here!

Regards.

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" < Sebastian. Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 12/14/2010 04:28 AM

Subject: Confirmatory Program 3.1l Audi

Hello Lynn,

I hope everything is fine in Michigan. I'm still in Germany and heard of the blizzard.

Can you please give me an update on EPAs decision on our 3.1l confirmatory program? It would be kind, if you can send me the last two test results of the Audi A6es.

Thank you very much.

Best regards.

Sebastian

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

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NVFEL Laboratory Test Data

Final Laboratory Test Results Test Number: 2011-0039-003

Vehicle ID: N002RXX-0133C MFR Name AUDI

Test Information

Test Date: 12/2/2010

MFR Codes: 640

ADX

Key Start: 10:20:02 Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel

Test Procedure: 03 HWFET (hwfetprep_hwfet)

Config #: 00 Transmission: AUTO

Shift Schedule: A09980011

Calculation Method: Gasoline Pretest Remarks:

Beginning Odometer: 053028.0 MI

Drive Schedule: hwfet_hwfet

Bag Data	HC-FID	CO	NOx	CO2	CH4	NonMeth HC
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(mgg)	(ppmC)
Sample	3.885	50.984	0.378	1.290	2.146	()
Ambient	2.569	0.000	0.017	0.045	1.963	
Net Concentration	1.564	50.984	0.362	1.250	0.373	1.137

Remarks:

Phase 2

Sample

Ambient Net Concentration

Remarks:

Phase 3

Sample Ambient

Net Concentration

Remarks:

Phase 4

Sample

Ambient

Net Concentration

Remarks:

	SISSONIA SI						
Results	HC-FID	<u>CO</u>	<u>NOx</u>	CO2	CH4	NMHC	Vol MPG
Phase 1	(gpm) 0.010	(gpm) 0.681	(gpm) 0.007	(gpm) 262.2	(gpm) 0.003	(gpm) 0.008	(mpg) 33.771

Fuel Economy

Gasoline MPG Phase 1

33.74

Dyno Settings

Dyno #: D329 - AWD

Inertia: 4250 EPA Set Co A: 6.04

EPA Set Co B: 0.2166 EPA Set Co C: 0.01666

Emiss-Bench: Mexa 7200sle

v101007 - d329

EPAVDAEm101202095619

Page 1 of 2

Print Time 02-Dec-2010 10:51

		Laboratory T Laboratory Test				CVS
Test Numbe	r: 2011-0039-003			Vehicle ID:	N002RXX-0133	SC.
Results HC-FID (grams) Phase 1 0.106	CO (grams) 6.973	NOx (grams) 0.074	CO2 (grams) 2686.2	<u>CH4</u> (grams) 0.029	NMHC (grams) 0.077	Meth Responding
est Conditions Barometer (inHy Avg Cell Temp (degl Dew Point (degl Specific Humidity (grains/lbn NOx Corr Facto CO2 Dilution Facto CFV Vmix (scf @68f	74.77 74.80 74.80 75.56 76.09046 76.09046 76.09046 76.09046 76.09046 76.09046 76.09046 76.09046 76.09046 76.09046	Phase 2	Phase 3	Phase 4		PORTENIO SE O MERCINIMO PER ES ESCUENCIA SE ES ANAMA
Fan Placemen Phase Time (secs Distance (miles Bag Analysis Time (secs	5) 10.246	Front				
		•				

12/2/2010 10:51 AM

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Page 2 of 2

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Print Time 02-Dec-2010 10:51

v101007 - d329



				L Laboratory To Laboratory Test I				cvs
		Test Number:	2011-0040-002		resuits	Vehicle ID:	N001RXX-0136	30
Γest Information		Test Date:	NAME OF THE PROPERTY OF THE PR		Manadisk i Disconsciolation and a state of the state of t	MFR Name		
COLED BY IN	Key	Start / Hot Soak:	08:15:01 / 09:4	8		MFR Codes:		ADX
/ · · · · · · · · · · · · · · · · · · ·	Fi	uel Container ID:				Config #:	00	
			61 Tier 2 Cert			Transmission:		
A SAME S				day Exhaust (CAN		Shift Schedule:		
Carpanis V		culation Method:	Gasoline			Beginning Odometer:		
	1"	retest Remarks:				Drive Schedule:		
	***************************************				************************************	Soak Period:	18.6 hours	
Bag Data		HC-FID	CO	NOx	CO2	CH4	NonMeth HC	
Phase 1		(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample		17.492	55.441	2.501	1.132	3.448	(44)	
Ambien		2.616	0.000	0.019	0.042	1.929		
Net Concentration)	15.098	55.441	2.484	1.094	1.683	13.174	
	Remarks:							
Phase 2								
Sample)	2.473	9.935	0.029	0.724	1.840		
Ambien	*	2.557	0.000	0.018	0.042	1.914		
Net Concentration	1	0.054	9.935	0.013	0.684	0.030	0.020	
	Remarks:							
Phase 3	T TOTTIST TO							
 Sample	1	2.966	13.900	0.183	0.953	2.017		
Ambient	į	2.534	0.000	0.013	0.042	1.908		
Vet Concentration	i.	0.613	13.900	0.171	0.914	0.245	0.334	
	Remarks:							
hase 4	romano.							
Sample								
Ambient								
Vet Concentration		к.						
	Remarks:							
	rveiligins.							
esults		HC-FID	CO	NOx	CO2	CH4	NMHC	Vol MPG
		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	Phase 1	0.191	1.413	0.094	438.3	0.025	0.166	20.154
	Phase 2	0.001	0.403	0.001	436.0	0.001	0.000	20.364
	Phase 3	0.008	0.354	0.006	366.3	0.004	0.004	24.234
	Weighted	0.04220	0.59895	0.02172	417.310	0.00643	0.03585	
uel Economy	SCHOOL SERVICE STATE OF THE SE	Gasoline MPG	0.00000	U.ULTIL	417.310	0.00643 Dyno Settings		D329 - AWD
	Phase 1	20.13				DANO Semida	Dyno #: Inertia:	
	Phase 2	20.34					EPA Set Co A:	
	Phase 3	24.21					EPA Set Co B:	
							EPA Set Co C:	
	and the second	L 2 100	*	*	*	*	,	
	Weighted	21.25			***************************************		Emiss-Bench:	Mexa 7200slo
101007 - d329EP	AVDAEm1012	03080211		Page 1 of 2			Print Tim	e 03-Dec-2010 09

n 2 , 4

06/20/2017

	NVFEL	Laboratory To	est Data			cvs
		aboratory Test	Results			
Test Number: 2					N001RXX-013	
Phase 1 0.683 Phase 2 0.004 Phase 3 0.028	CO (grams) 5.066 1.551 1.272	NOx (grams) 0.338 0.003 0.023	<u>CO2</u> (grams) 1571.4 1679.2 1314.8	CH4 (grams) 0.088 0.003 0.013	NMHC (grams) 0.596 0.002 0.015	Meth Response 1.143
Barometer (inHg) Avg Cell Temp (degF) Dew Point (degF) Specific Humidity (grains/lbm) NOx Corr Factor CO2 Dilution Factor CFV Vmix (scf @68F)	Phase 1 29.19 75.65 49.09 53.05 0.9065 11.758 2771.37	Phase 2 29.19 74.86 49.13 53.12 0.9068 18.478 4736.37	Phase 3 29.20 74.81 49.02 52.90 0.9059 14.032 2776.39	Phase 4		
CVS Flow Rate Avg (scfm)	327.91	326.72	329.02			
Fan Placement: C	ne Fan - Un - F	ront				
Phase Time (secs)	507.10	869.80	506.30			
Distance (miles)	3.585	3.852	3.589			
Bag Analysis Time (secs)	879.3	1109.4	120.6			

12/3/2010 9:10 AM

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20080609183200

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2017-FFP_001913

Print Time 03-Dec-2010 09:10

v101007 - d329



ADX

NVFEL Laboratory Test Data

Final Laboratory Test Results

Test Number: 2011-0040-003

Test Date: 12/3/2010

Key Start: 09:44:53 Fuel Container ID: F00023

Fuel Type: 61 Tier 2 Cert Test Fuel Test Procedure: 03 HWFET (hwfetprep_hwfet)

Calculation Method: Gasoline

Pretest Remarks:

MFR Name AUDI

Vehicle ID: N001RXX-0136C

MFR Codes: 640

Config #: 00

Transmission: AUTO Shift Schedule: A09980011

Beginning Odometer: 019297.0 MI

Drive Schedule: hwfet hwfet

Bag Data	HC-FID	<u>CO</u>	<u>NOx</u>	CO2	<u>CH4</u>	NonMeth HC	
Phase 1	(ppmC)	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample	3.368	38.843	0.636	1.277	1.987	W F	
Ambient	2.480	0.000	0.006	0.041	1.899		
Net Concentration	1.125	38.843	0.630	1.240	0.270	0.816	

Remarks:

Phase 2

Sample Ambient

Net Concentration

Test Information

Remarks:

Phase 3

Sample Ambient **Net Concentration**

Remarks:

Phase 4

Sample **Ambient Net Concentration**

Remarks:

Results		HC-FID	<u>co</u>	<u>NOx</u>	<u>CO2</u>	<u>CH4</u>	<u>NMHC</u>	Vol MPG
	Phase 1	(gpm) 0.007	(gpm) 0.520	(gpm) 0.013	(gpm) 260.5	(gpm) 0.002	(gpm) 0.005	(mpg) 34.015
			****			0.002	0.000	04.010

Fuel Economy	Gas	soline MPG				Dyno Settings	Dyno #:	D329 - AWD
	Phase 1	33.98					Inertia:	4250
							EPA Set Co A:	3.54
							EPA Set Co B:	0.228
						±.	EPA Set Co C:	0.01696
			*	*		.*.		
***************************************					 		Emiss-Bench:	Mexa 7200sle
v101007 - d329 E	PAVDAEm10120309	00426	***************************************	Page 1 of 2	gagileren der	Minung An CONTAINAGE	Print Tim	e 03-Dec-2010 10:27

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				Laboratory T				cvs
		Test Number: 2	Final I ממת-ממת-11	_aboratory Test I	Results	Vahiala ID	NIONADVV NAON	.
Results		HC-FID	<u>CO</u>	venicie ib: <u>CH4</u>	Vehicle ID: N001RXX-0136C CH4 NMHC Meth Respons			
STATES STATES	Phase 1	(grams) 0.076	(grams) 5.323	<u>NOx</u> (grams) 0.128	<u>CO2</u> (grams) 2669.4	(grams) 0.021	(grams) 0.055	Meth Respons 1.143
Test Conditions Sp	Avg Ce De ecific Humid N CO2	arometer (inHg) all Temp (degF) aw Point (degF) ity (grains/lbm) Ox Corr Factor Dilution Factor nix (scf @68F)	Phase 1 29.21 75.04 48.67 52.19 0.9032 10.459 4156.16	Phase 2	Phase 3	Phase 4		ain katara an an ann an an an an an an an an an a
,	CVS Flow R	ate Avg (scfm)	325.93					
	Pha D	an Placement: Or se Time (secs) istance (miles) sis Time (secs)	ne Fan - Up - F 765.10 10.245 104.8	ront	2			
							~	
		٠						

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Page 2 of 2

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entitate photophologica and images publications						<u>and the second of the second </u>	<u> </u>	C150
	***************************************			Laboratory 1		CONTRACTOR		CVS
				aboratory Test	Results			
		no anti-propried de la company	2011-0039-002			CACIO ACCIO SONO CONTRA DE	N002RXX-0133	C
Test Information		Test Date:				MFR Name		to annual to
CHIED STAN			09:02:34 / 09:45			MFR Codes:		ADX
/: / · · · · · · · · · · · · · · · · · ·	Fue	el Container ID:				Config #:		
			61 Tier 2 Cert Te			Transmission:		
18 77/2 3			21 Fed Fuel 2-da	y Exhaust (CAN		Shift Schedule:		
()		ulation Method:	Gasoline			Beginning Odometer:		
7. MID22	Pro	etest Remarks:				Drive Schedule:	7 777	
		niidhamiseensaaanataanataanasseensaanassa saa		01400000140040 0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-		Soak Period:	25.3 hours	
Bag Data		HC-FID		NOV		OU V		
Phase 1			<u>CO</u>	NOx (nnm)	<u>CO2</u>	<u>CH4</u>	NonMeth HC	
<u>rnase i</u> Sample		(ppmC) 24.593	(ppm)	(ppm)	(%)	(ppm)	(ppmC)	
Sample Ambient		24.593	80.808 0.000	2.330 0.022	1.119 0.044	4.137 1.974		
Ambient Net Concentration		2.049 22.168	80.808	2.310	1.079	2.329	19.505	
not Concentration	ı	22.100	00.000	2.010	1.079	2.328	19.503	
	Remarks:							
Phase 2								
Sample		2.746	11.295	0.022	0.712	1.919		
Ambient		2.596	0.000	0.019	0.044	1.966		
Net Concentration		0.288	11.295	0.003	0.670	0.058	0.222	
	Damedia							
None 2	Remarks:							
<u>Phase 3</u> Sample		5.650	00 400	0.220	0.040	0.077		
Ambient		2.532	26.425 0.000	0.330 0.021	0.919	2.277		
Net Concentration		3.292	26,425	0.310	0.044 0.878	1.972 0.441	2.788	
ver concentiation		J.LOL	20.425	0.510	0.076	0.441	2.700	
	Remarks:							
Phase 4	ixemains.							
Sample								
Ambient								
Vet Concentration								
	Remarks:							
lesults		HC-FID	<u>CO</u>	<u>NOx</u>	CO2	CH4	NMHC	Vol MPG
The second secon		(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(mpg)
	Phase 1	0.279	2.054	0.087	431.0	0.034	0.246	20.435
	Phase 2	0.006	0.459	0.000	427.5	0.001	0.004	20.761
	Phase 3	0.042	0.673	0.012	351.4	0.006	0.035	25.217
	Weighted	0.07242	0.84914	0.02150	407.259	THE REPORT OF THE PARTY OF THE	0.06302	
uel Economy		3asoline MPG				Dyno Settings		D329 - AWD
	Phase 1	20.41					Inertia:	
	Phase 2	20.74					EPA Set Co A:	
	group and the same						EPA Set Co B:	0.2166
	Phase 3	25.19						
	Phase 3	25,19				۵	EPA Set Co C:	
	Phase 3 Weighted	25.19	*	ų.	*	<u>.</u>		0.01666

06/20/2017

				Laboratory T				CVS
	Final Laboratory Test Results							
esults		Test Number: 2 HC-FID				Vehicle ID:		
SUIS SUIS	Phase 1	(grams) 1.000	<u>CO</u> (grams) 7.358	<u>NOx</u> (grams) 0.313	<u>CO2</u> (grams) 1543.6	<u>CH4</u> (grams) 0.122	<u>NMHC</u> (grams) 0.880	Meth Respo 1.143
	Phase 2 Phase 3	0.022 0.149	1.758 2.417	0.001 0.042	1638.9 1261.9	0.005 0.023	0.017 0.126	
st Conditions			Phase 1	Phase 2	Phase 3	Phase 4		
		rometer (inHg)	29.12	29.12	29.13			
		ll Temp (degF)	74.86	74.87	74.84			
		w Point (degF)	49.05	49.11	48.91			
Sp		ity (grains/lbm)	53.09	53.22	52.79			
		Ox Corr Factor	0.9066	0.9071	0.9055			
	CO2	Dilution Factor	11.858	18.782	14.528			
	CFV Vn	nix (scf @68F)	2761.70	4719.78	2774.55			
	CVS Flow R	ate Avg (scfm)	326.57	325.73	328.16			
		an Dianamanti C		Ton and the little				
*		an Placement: C			ene no			
		se Time (secs)	507.40	869.39	507.30			
		istance (miles)	3.582	3.833	3.591			
	Day Allalys	is Time (secs)	878.9	1108.1	120.6			

EPAVDAEm101202084123

Page 2 of 2

2017-FFP_001917

Print Time 02-Dec-2010 09:58

v101007 - d329_

To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Tue 12/14/2010 7:40:35 PM Certificate for MY 2012 Test Group CVWXV02.5259
Hello Jim,	
I received abe signed.	a message on Friday that the certificate for MY 2012 Test Group CVWXV02.5259 was waiting to
Is there an	y reason it hasn't been signed yet?
Best regard	ds,
Bob Hart	
Robert Hai	rt
Engineerin	g and Environmental Office
Volkswage	n Group of America, Inc.
3800 Ham	lin Road
Auburn Hil	is, MI 48326
Phone: (24	8) 754-4224
Fax: (248)	754-4207

E-mail: robert.hart@vw.com

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 12/14/2010 9:59:26 PM

Subject: Re: Certificate for MY 2012 Test Group CVWXV02.5259

They are in the signing queue. I assume the other test group certs were signed since they are gone. Not sure why Linc didn't do those but I know some times its very slow to get through it.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" < Robert. Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 12/14/2010 02:40 PM

Subject: Certificate for MY 2012 Test Group CVWXV02.5259

Hello Jim,

I received a message on Friday that the certificate for MY 2012 Test Group CVWXV02.5259 was waiting to be signed.

1

Is there any reason it hasn't been signed yet?

Best regards,

Bob Hart

VW FOIA, EPA

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

eonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 12/14/2010 10:48:45 PM

Subject: Audi phone conference: Start/stop and manual trans

EPA room phone is Non-Responsive

I will try to get some materials to you prior to the call. To be more specific about the topics:

- 1. General discussion concerning start-stop devices.
- 2. Shift speeds for manual transmission vehicles with start-stop devices

To: CN=Chris Nevers/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;Leonard.Kata@vw.com;CN=Linc

Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=ŪS@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

eonard.Kata@vw.com;CN=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Linc Wehrly/OU=AA/O=USEPA/C=US@EPA;CN=Martin

Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Martin Reineman/OU=AA/O=USEPA/C=US@EPA;CN=Stephen

Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Stephen Healy/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]

Cc: [

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 12/14/2010 10:48:45 PM

Subject: Audi phone conference: Start/stop and manual trans

EPA room phone is 7-34-214-4152

I will try to get some materials to you prior to the call. To be more specific about the topics:

- 1. General discussion concerning start-stop devices.
- 2. Shift speeds for manual transmission vehicles with start-stop devices

To: "Kata, Leonard" [Leonard.Kata@vw.com]

Cc: [] Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Tue 12/14/2010 10:50:41 PM Subject: RE: FW: Conference Call - Audi

Len, I scheduled a room. Can you and Lothar connect and both call in to our phone? Or do we need a conference number?

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Kata, Leonard" < Leonard. Kata@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 12/14/2010 01:47 PM

Subject: RE: FW: Confernece Call - Audi

Hi Jim:

I just wrote back and tried to recall the message. I read your message too fast.

Next Monday at 10:00 sounds good. I will let Lothar know.

Best regards,

Len

Leonard W. Kata Manager, Emission Regulations and Certification Engineering and Environmental Office Volkswagen Group of America, Inc.

Phone: (248) 754-4204 Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Tuesday, December 14, 2010 1:35 PM

To: Kata, Leonard

Subject: Re: FW: Confernece Call - Audi

Next Tuesday is mtg from 9 to 10 again so I guess monday morning. How about 10:00?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Kata, Leonard" < Leonard. Kata@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 12/14/2010 01:27 PM Subject: FW: Confernece Call - Audi

Hi Jim:

I received your message that the proposed time for tomorrow is not good. Unfortunately, Lothar is not in the office on Thursday or Friday, so my suggestion is to postpone until early next week. Would you propose a time, preferably no later than 11:00 a.m. on Monday (12/20) or Tuesday (12/21) that would work for you?

I will try to get some materials to you prior to the call. To be more specific about the topics:

- 1. General discussion concerning start-stop devices.
- 2. Shift speeds for manual transmission vehicles with start-stop devices.

Thanks,

Len

From: Kata, Leonard

Sent: Friday, December 10, 2010 7:57 AM

To: 'Snyder.Jim@epamail.epa.gov' Subject: Confernece Call - Audi

Hello Jim:

I am asking about scheduling a conference call with you and EPA staff to Discuss start-stop devices with Audi. Lothar Rech from Audi would join.

Wednesday, December 15, 2010 10:30 a.m. Detroit time. 30-45 minutes.

Please let me know what you think.

Regards,

Len

Leonard W. Kata

Manager, Emission Regulations and Certification Engineering and Environmental Office Volkswagen Group of America, Inc. Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: Jim Snyder/AA/USEPA/US@EPA[]

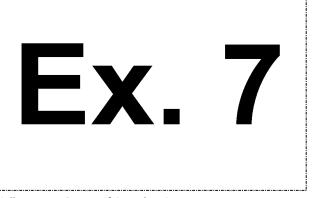
From: Ex. 7

Sent: Wed 12/15/2010 1:23:16 PM
Subject: RE: FW: Conference Call - Audi
mailto:Snyder.Jim@epamail.epa.gov

Hello Jim:

I can added a few people to my desk telephone using the conference feature, but I think that a conference call would be easier. I can easily set this up so you could call in to a local number. I will send the coordinates to you and other cans join as needed.

Best regards,



Volkswagen Group of America, Inc.

Ex. 7

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Tuesday, December 14, 2010 5:51 PM

To: Ex. 7

Subject: RE: FW: Conference Call - Audi

Ex. 7 I scheduled a room. Can you and Ex. 7 connect and both call in to our phone? Or do we need a conference number?

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From:	Ex. 7
То:	Jim Snyder/AA/USEPA/US@EPA
Date:	12/14/2010 01:47 PM
Subject	: RE: FW: Confernece Call - Audi

Hi Jim:

I just wrote back and tried to recall the message. I read your message too fast.

Next Monday at 10:00 sounds good. I will let **Ex. 7** know.

Best regards,



Volkswagen Group of America, Inc.

Ex. 7

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Tuesday, December 14, 2010 1:35 PM

To: Ex. 7 Subject: Re: FW: Confernece Call - Audi		
Next Tuesday is mtg from 9 to 10 again so I guess monday morning. How about 10:00?		
Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov		
From: Ex. 7		
To: Jim Snyder/AA/USEPA/US@EPA		
Date: 12/14/2010 01:27 PM		
Subject: FW: Confernece Call - Audi		
Hi Jim:		
I received your message that the proposed time for tomorrow is not good. Unfortunately, Ex. 7 is not in the office on Thursday or Friday, so my suggestion is to postpone until early next week. Would you propose a time, preferably no later than 11:00 a.m. on Monday (12/20) or Tuesday (12/21) that would work for you?		
I will try to get some materials to you prior to the call. To be more specific about the topics:		
 General discussion concerning start-stop devices. Shift speeds for manual transmission vehicles with start-stop devices. 		
Thanks,		

Ex. 7

From:

Ex. 7

To: 'Snyder.Jim@epamail.epa.gov'

Sent: Friday, December 10, 2010 7:57 AM

Subject: Confernece Call - Audi

Hello Jim:

I am asking about scheduling a conference call with you and EPA staff to Discuss start-stop devices with Audi.

Ex. 7 | from Audi would join.

Wednesday, December 15, 2010 10:30 a.m. Detroit time. 30-45 minutes.

Please let me know what you think.

Regards,

Ex. 7

Volkswagen Group of America, Inc.

Ex. 7

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Kata, Leonard"

Sent: Wed 12/15/2010 4:02:51 PM

Subject: Accepted: Audi phone conference: Start/stop and manual trans

To: Jim Snyder/AA/USEPA/US@EPA[] Cc: "Rech, Lothar (I/EA-523)" [Lothar.Rech@AUDI.DE] From: "Kata, Leonard" Sent: Wed 12/15/2010 4:07:17 PM Subject: EPA/AUDI Conference Call Hi Jim: The e-gremlins must be active today. I sent an outlook invitation to you with a call-in number for our conference call on Monday (12/20) at 10:00. I keep getting an "undeliverable" message back, but the email is in my sent items folder. So... just in case, the following is the information for the call-in. Please use the Dial-In and the Participant Code below. Audio Conference Information: **Non-Responsive** Best regards, Len Leonard W. Kata Manager, Emission Regulations and Certification

1

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: From: Sent: Subject:	Jim Snyder/AA/USEPA/US@EPA[] "Hart, Robert (VWoA)" Wed 12/15/2010 4:17:30 PM VW Group: MY 2012 Test Waiver Requests	
Hello Jim,		
I just submitted two more MY 2012 test waiver requests. I expect to submit two more by the end of the day if possible.		
	ur were for two FEDV's (automatic and manual transmission versions) for test group 5U35 – federal only BIN 5 new midsized sedan (NMS).	
This is a ne	w model to be produced at VW's new factory in Tennessee.	
The two from today and the two yet to be submitted are a PZEV version of the same vehicle.		
These are all fuel economy tests for the first two test group applications that I have already submitted for certification.		
Best regards,		
Bob Hart		
Robert Hart		
Engineering and Environmental Office		
Volkswage	n Group of America, Inc.	
3800 Hamlin Road		
Auburn Hills, MI 48326		

2017-FFP_001932 VW FOIA, EPA 06/20/2017

Phone: (248) 754-4224

Fax: (248) 754-4207

E-mail: robert.hart@vw.com

VW FOIA, EPA

To: "Kata, Leonard" [Leonard.Kata@vw.com]

Cc: "Rech, Lothar (I/EA-523)" [Lothar.Rech@AUDI.DE]

Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Wed 12/15/2010 6:13:25 PM Subject: Re: EPA/AUDI Conference Call

I didn't get the earlier one but I received this, thanks.

Jim Snyder
Light-Duty Vehicle Group
Compliance and Innovative Strategies Division
United States Environmental Protection Agency
(734) 214-4946
snyder.jim@epa.gov

From: "Kata, Leonard" < Leonard. Kata@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Cc: "Rech, Lothar (I/EA-523)" <Lothar.Rech@AUDI.DE>

Date: 12/15/2010 11:26 AM Subject: EPA/AUDI Conference Call

Hi Jim:

The e-gremlins must be active today. I sent an outlook invitation to you with a call-in number for our conference call on Monday (12/20) at 10:00. I keep getting an "undeliverable" message back, but the e-mail is in my sent items folder.

So... just in case, the following is the information for the call-in. Please use the Dial-In and the Participant Code below.

Audio Conference Information:

Ex. 6

Best regards,

Len

Leonard W. Kata Manager, Emission Regulations and Certification Engineering and Environmental Office Volkswagen Group of America, Inc.

Phone: (248) 754-4204 Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

To: "Hart, Robert (VWoA)" [Robert.Hart@vw.com]

Cc: []
Bcc: []

From: CN=Jim Snyder/OU=AA/O=USEPA/C=US

Sent: Wed 12/15/2010 6:14:31 PM

Subject: Re: VW Group: MY 2012 Test Waiver Requests

I now see six total. Is that all of them?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From: "Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To: Jim Snyder/AA/USEPA/US@EPA

Date: 12/15/2010 11:28 AM

Subject: VW Group: MY 2012 Test Waiver Requests

Hello Jim,

I just submitted two more MY 2012 test waiver requests. I expect to submit two more by the end of the day if possible.

The first four were for two FEDV's (automatic and manual transmission versions) for test group CVWXV02.5U35 – federal only BIN 5 new midsized sedan (NMS). This is a new model to be produced at VW's new factory in Tennessee.

The two from today and the two yet to be submitted are a PZEV version of the same vehicle.

These are all fuel economy tests for the first two test group applications that I have already submitted for certification.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: Jim Snyder/AA/USEPA/US@EPA[]

From: "Hart, Robert (VWoA)"

Sent: Wed 12/15/2010 6:18:18 PM

Subject: RE: VW Group: MY 2012 Test Waiver Requests

Hi Jim,

There are two more coming shortly.

Bob

From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Wednesday, December 15, 2010 1:15 PM

To: Hart, Robert (VWoA)

Subject: Re: VW Group: MY 2012 Test Waiver Requests

I now see six total. Is that all of them?

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

From:

"Hart, Robert (VWoA)" <Robert.Hart@vw.com>

To:

Jim Snyder/AA/USEPA/US@EPA

Date:

12/15/2010 11:28 AM

Subject:

VW Group: MY 2012 Test Waiver Requests

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I just submitted two more MY 2012 test waiver requests. I expect to submit two more by the end of the day if possible.

The first four were for two FEDV's (automatic and manual transmission versions) for test group CVWXV02.5U35 – federal only BIN 5 new midsized sedan (NMS).

This is a new model to be produced at VW's new factory in Tennessee.

The two from today and the two yet to be submitted are a PZEV version of the same vehicle.

These are all fuel economy tests for the first two test group applications that I have already submitted for certification.

Best regards,

Bob Hart

Robert Hart

Engineering and Environmental Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326

Phone: (248) 754-4224 Fax: (248) 754-4207

E-mail: robert.hart@vw.com

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]
Cc: CN=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Jim

Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[]

Bcc: []

From: CN=Lvnn Sohacki/OU=AA/O=USEPA/C=US

Sent: Thur 12/16/2010 2:25:14 PM

Subject: Some questions on the N001/N002 class

Hi, Sebastian.

I mentioned in my last e-mail that we were suspending confirmatory testing at this time and wanted to focus on how the change in fueling affected the emissions. Given that 4 out of 5 of the surveillance Audi A6 in-use vehicles failed emissions before revising the fuel drain procedure and none of the confirmatory vehicles failed after using the revised drain procedure that avoids altering the fuel factor, we would like to better understand how it works.

We would like an explanation of this fuel feature. When is it active? What triggers it? What does the feature affect or adjust? What are the inputs and outputs? What do you call this feature? The answers to these questions will help us assess the results of the surveillance and confirmatory tests.

Please try to get the answers to us by the first week in January. However, if that is not possible, please let me know when you expect to get the answers to us.

Thanks you!

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

To: Lynn Sohacki/AA/USEPA/US@EPA[]

From: "Berenz, Sebastian" **Sent:** Fri 12/17/2010 8:36:09 AM

Subject: RE: Some questions on the N001/N002 class

Hello Lynn,

Thank you for keeping me updated.

I have received you questions concerning our 3.1l confirmatory programs.

We are now working to get the answers to you.

The problem is, that our factory is shut down till January, 10th and most of the people are already on vacation.

My colleges will start working on the questions as soon as everybody is back in the office. So I hope it is sufficient for you, that you will get the answers during the first half of January.

I will be back in Michigan at January 3rd and try to get everything done as soon as possible.

Thank you very much.

Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

Volkswagen Group of America, Inc. 3800 Hamlin Road Auburn Hills, MI 48326 United States of America

Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

E-Mail: sebastian.berenz@vw.com

http://www.volkswagen.com

P Before you print it, think about your responsibility and commitment to the ENVIRONMENT!

-----Original Message-----

From: Sohacki.Lynn@epamail.epa.gov [mailto:Sohacki.Lynn@epamail.epa.gov]

Sent: Thursday, December 16, 2010 9:25 AM

To: Berenz, Sebastian

Cc: Ball.Joel@epamail.epa.gov; Snyder.Jim@epamail.epa.gov; Anderson.Tom@epamail.epa.gov

Subject: Some questions on the N001/N002 class

Hi, Sebastian.

I mentioned in my last e-mail that we were suspending confirmatory testing at this time and wanted to focus on how the change in fueling affected the emissions. Given that 4 out of 5 of the surveillance Audi A6 in-use vehicles failed emissions before revising the fuel drain procedure and none of the confirmatory vehicles failed after using the revised drain procedure that avoids altering the fuel factor, we would like to better understand how it works.

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Thanks you!

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

To: "Berenz, Sebastian" [Sebastian.Berenz@vw.com]

Cc: CN=Jim Snyder/OU=AA/O=USEPA/C=US@EPA;CN=Joel

Ball/OU=AA/O=USEPA/C=US@EPA;CN=Arvon

Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Joel Ball/OU=AA/O=USEPA/C=US@EPA;CN=Arvon

Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom Anderson/OU=AA/O=USEPA/C=US@EPA[];

N=Arvon Mitcham/OU=AA/O=USEPA/C=US@EPA;CN=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]; N=Tom

Anderson/OU=AA/O=USEPA/C=US@EPA[]

Bcc: []

From: CN=Lvnn Sohacki/OU=AA/O=USEPA/C=US

Sent: Fri 12/17/2010 2:02:30 PM

Subject: RE: Some questions on the N001/N002 class

Thanks, Sebastian.

I understand that there may be a delay because of vacations. That's fine. We'll look for the answers in January.

Enjoy the holidays!

Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)

From: "Berenz, Sebastian" <Sebastian.Berenz@vw.com>

To: Lynn Sohacki/AA/USEPA/US@EPA

Date: 12/17/2010 03:36 AM

Subject: RE: Some questions on the N001/N002 class

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Best regards.

Sebastian Berenz

Manager In-Use Emission Compliance Environmental Engineering Office

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Phone: (248) 754-4211 Cell: (248) 736-3487 FAX: (248) 754-4207

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Subject: Some questions on the N001/N002 class

Hi, Sebastian.

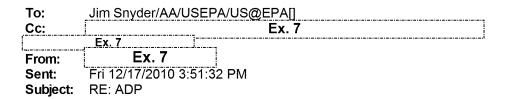
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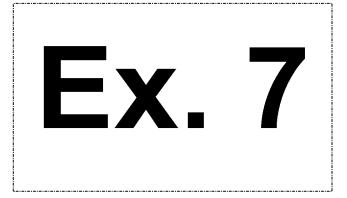
Lynn Sohacki Environmental Protection Agency 734-214-4851 734-214-4869 (fax)



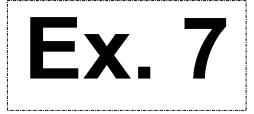
Hello Jim:

I am not sure whether you are alerted to the letter I submitted to VERIFY. The vast majority of 2012 test groups are carryover from 2011. As mentioned in our certification preview, we use the VWADP that has been approved by EPA in the past and used for several years now. The SRC is primarily for Diesel test groups. The letter requests carryover of the previously approved procedure and nothifies EPA of the use of the SRC.

Best regards,



Volkswagen Group of America, Inc.



From: Snyder.Jim@epamail.epa.gov [mailto:Snyder.Jim@epamail.epa.gov]

Sent: Monday, December 06, 2010 3:42 PM

То:	Ex. 7	
Subject	: ADP	

Ex. 7 I talked to Ex. 7 about ADP and VW uses the SRC process which doesn't require approval. So all I need is a letter saying you are using EPA's SRC and we are all set on this.

Jim Snyder Light-Duty Vehicle Group Compliance and Innovative Strategies Division United States Environmental Protection Agency (734) 214-4946 snyder.jim@epa.gov

To: Jim Snyder/AA/USEPA/US@EPA;Chris Nevers/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; hris Nevers/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; inc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; artin Reineman/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; om Anderson/AA/USEPA/US@EPA[]

From: "Kata, Leonard"

Sent: Mon 12/20/2010 12:39:41 PM

Subject: RE: Invitation: Audi phone conference: Start/stop and manual trans (Dec 20 10:00 AM

EST in AA-N62-ASD&CISD/AA-OTAQ-OFFICE@EPA)

01 STSTSY-survey and MT.PDF

Hello All	:
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Attached are a few slides for our conference call this morning.

Best regards,

Len

Leonard W. Kata

Manager, Emission Regulations and Certification

Engineering and Environmental Office

Volkswagen Group of America, Inc.

Phone: (248) 754-4204

Cell: (248) 797-3886

E-Mail: leonard.kata@vw.com

<<01_STSTSY-survey and MT.PDF>>

-----Original Appointment-----From: Jim Snyder/AA/USEPA/US

Sent: Tuesday, December 14, 2010 5:49 PM

To: Jim Snyder/AA/USEPA/US; Nevers.Chris@epamail.epa.gov; Ball.Joel@epamail.epa.gov; Kata, Leonard; Wehrly.Linc@epamail.epa.gov; Reineman.Martin@epamail.epa.gov; Healy.Stephen@epamail.epa.gov; Anderson.Tom@epamail.epa.gov

ASD	ect: Invitation: Audi phone conference: Start/stop and manual trans (Dec 20 10:00 AM EST in AA-N62- &CISD/AA-OTAQ-OFFICE@EPA) en: Monday, December 20, 2010 10:00 AM-11:00 AM (GMT-05:00) Eastern Time (US & Canada). ere:
Invit	ation: Audi phone conference: Start/stop and manual trans
12/2	0/2010 -
Chai Jim S	r: Snyder/AA/USEPA/US
Sent Snyc	By: ler.Jim@epamail.epa.gov
Rooi AA-N	ms: N62-ASD&CISD/AA-OTAQ-OFFICE@EPA
-	ler.Jim@epamail.epa.gov Snyder has invited you to a meeting. You have not yet responded.
Chris Weh	uired: s Nevers/AA/USEPA/US@EPA, Joel Ball/AA/USEPA/US@EPA, Leonard.Kata@vw.com, Linc urly/AA/USEPA/US@EPA, Martin Reineman/AA/USEPA/US@EPA, Stephen Healy/AA/USEPA/US@EPA, Tom erson/AA/USEPA/US@EPA
Desc	ription
EPA	room phone is Ex. 6
l wil	try to get some materials to you prior to the call. To be more specific about the topics:
1. 2.	General discussion concerning start-stop devices. Shift speeds for manual transmission vehicles with start-stop devices << File: ATT1507133.htm >> << File:

2. Shift speeds for manual transmission vehicles with start-stop devices << File: ATT1507133.htm >> << File: c174846.ics >> << File: ecblank.gif >> << File: pic07156.gif >>

To: Jim Snyder/AA/USEPA/US@EPA; Chris Nevers/AA/USEPA/US@EPA; Joel Ball/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; hris Nevers/AA/USEPA/US@EPA;Joel Ball/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA; Stephen Healy/AA/USEPA/US@EPA; Tom Anderson/AA/USEPA/US@EPA[]; oel Ball/AA/USEPA/US@EPA;Linc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; inc Wehrly/AA/USEPA/US@EPA;Martin Reineman/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; artin Reineman/AA/USEPA/US@EPA;Stephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; tephen Healy/AA/USEPA/US@EPA;Tom Anderson/AA/USEPA/US@EPA[]; om Anderson/AA/USEPA/US@EPA[] Ex. 7

From:

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Subject: RE: Invitation: Audi phone conference: Start/stop and manual trans (Dec 20 10:00 AM

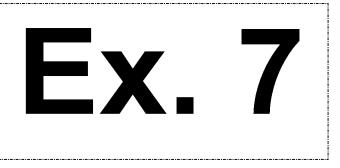
Non-Responsive

01 STSTSY-survey and MT.PDF

Hello All:

Attached are a few slides for our conference call this morning.

Best regards,



Volkswagen Group of America, Inc.



<<01_STSTSY-survey and MT.PDF>>

-----Original Appointment-----From: Jim Snyder/AA/USEPA/US

Sent: Tuesday, December 14, 2010 5:49 PM

To: Jim Snyder/AA/USEPA/US; Nevers.Chris@epamail.epa.gov; Ball.Joel@epamail.epa.gov; Non-Responsive Wehrly, Linc@epamail.epa.gov; Reineman, Martin@epamail.epa.gov; Healy, Stephen@epamail.epa.gov;

Anderson.Tom@epamail.epa.gov

Subject: Invitation: Audi phone conference: Start/stop and manual trans (Dec 20 10:00 AM EST in Non-Responsive Non-Responsive When: Monday, December 20, 2010 10:00 AM-11:00 AM (GMT-05:00) Eastern Time (US & Canada). Where:
Invitation: Audi phone conference: Start/stop and manual trans
12/20/2010 -
Chair: Jim Snyder/AA/USEPA/US
Sent By: Snyder.Jim@epamail.epa.gov
Rooms:
Non-Responsive
Snyder.Jim@epamail.epa.gov Jim Snyder has invited you to a meeting. You have not yet responded.
Required: Chris Nevers/AA/USEPA/US@EPA, Joel Ball/AA/USEPA/US@EPA, Ex. 7 Linc Wehrly/AA/USEPA/US@EPA, Martin Reineman/AA/USEPA/US@EPA, Stephen Healy/AA/USEPA/US@EPA, Tom Anderson/AA/USEPA/US@EPA
Description
EPA room phone is Non-Responsive
I will try to get some materials to you prior to the call. To be more specific about the topics:
General discussion concerning start-stop devices.

- 2. Shift speeds for manual transmission vehicles with start-stop devices << File: ATT1507133.htm >> << File: c174846.ics >> << File: ecblank.gif >> << File: pic07156.gif >>

To:	Jim Snyder/AA/USEPA/US@EPA[]	
Cc:	Ex. 7	
From:	EX. I	
Sent:	Tue 12/28/2010 5:30:01 PM	
Subject:	2012 Pre-Model GHG Report	

Hello Jim:

To ensure that we have met the December 31, 2010 deadline for a formal report submission, I have submitted the 2012 pre-model year GHG report through VERIFY, as we have discussed. This report uses our format and has been corrected to address the typographical errors noticed during the 12/01/2010 precertification meeting. The cover letter addresses the points raised in the regulations; such as, report contents, the use of credits (A/C, and early credits), and our plan regarding the incorporation of the N2O and CH4 values in an OCREE calculation.

Our intent is to further refine this report using the templates provided by Dave Good.

Best regards, and best wishes for the new year.



Volkswagen Group of America, Inc.

